



David Levy, Israel's deputy prime minister, left, greets a supporter as he arrives for the Herut Party committee vote. (The Associated Press)

Levy, Shamir Compete For Begin's Party Post

Compiled by Our Staff From Dispatches

TEL AVIV — The Herut Party's central committee began a secret ballot Thursday to choose between Deputy Prime Minister David Levy and Foreign Minister Yitzhak Shamir as Prime Minister Menachem Begin's possible successor.

The committee's meeting lasted much longer than expected, and results of the voting were still unavailable early Friday morning.

Only hours before the party's 857-member central committee met for the secret ballot, supporters of the two men said the race was "too close to call."

Mr. Begin, 70, remained at his home in Jerusalem.

"He feels a little weak," said a friend, Economics Minister Yaakov Meridor. "Not sick, but he's tired."

Mr. Begin announced his resignation this week and gave no public indication whom he preferred to succeed him.

Mr. Shamir and Mr. Levy sat next to each other in the Oheil Shem Theater, where voting was taking place, and at one point clasped raised hands in a victory gesture that drew prolonged, rhythmic applause.

Hundreds gathered in the street outside chanting "King of Israel!" as Mr. Shamir, Mr. Levy and former Defense Minister Ariel Sharon arrived.

Delegates voted behind screens and dropped their envelopes into ballot boxes on the theater stage.

The vote will establish the winner as the favorite to become prime minister.

But first he will have to persuade Herut's coalition partners to serve under him in place of Mr. Begin.

Herut has only 24 seats in the 120-member Knesset, the Israeli parliament, and has ruled with the help of the Liberals, who hold 18 seats, and with rightist and religious factions.

If he puts together a majority, President Chaim Herzog would be expected to choose him to form a new government rather than the opposition Labor Party.

The speaker of the Knesset, Menachem Savidor of the Liberal Party, said a unity government was needed to pull the army out of Lebanon and take urgent measures to stabilize the economy.

The Labor Party, which controls 50 seats in the Knesset, has shown no willingness to support the proposal.

The Labor Party leader, Shimon Peres, said that if President Herzog asked him to form a government he had a good chance of putting together a coalition from among the 11 parties in the Knesset.

Apart from Herut and the Liberals, the Begin coalition comprises six other factions.

Shultz Says Soviet Fighter Shot Down South Korean 747 With 269 Aboard

Compiled by Our Staff From Dispatches

WASHINGTON — A Soviet jet fighter shot down a South Korean Boeing 747 carrying 269 people when it strayed over the Soviet island of Sakhalin, George P. Shultz, the U.S. secretary of state, said Thursday.

Officials in Japan and South Korea said they also believed the plane was shot down in the area.

Mr. Shultz said at a news conference in Washington that the civilian plane, which was on a flight from New York, was tracked for more than two and a half hours and was downed with a missile. He said "there was no excuse whatsoever for this appalling act."

The Soviet news agency Tass said that an "unidentified aircraft" twice violated Soviet airspace and that Soviet fighters "were sent aloft" to try to help it land. The brief report did not say that Soviet jets shot the plane down and made no specific reference to the missing plane.

A search by Japanese and Soviet vessels was under way in the waters off Sakhalin, but no survivors had been found.

A U.S. congressman, Representative Lawrence P. McDonald, a Georgia Democrat, was aboard the aircraft. A spokesman for the congressman said he had been told by Pentagon officials in Washington that all on board the plane had been killed.

Mr. Shultz said the United States "reacts with revulsion" to the at-

tack on the unarmed commercial aircraft. He added that "the loss of life appears to be heavy."

He said there was no evidence that the Russians had warned the plane. He said the Soviet pilot was "close enough for a visual inspection." He said as many as eight Soviet jets were involved.

"At 1826 hours the Soviet pilot" of one plane "reported that he fired a missile and the target was destroyed," Mr. Shultz said.

Mr. Shultz said the U.S. government called in the Soviet chargé d'affaires in Washington to express "grave concern" and demand an explanation.

At a New York news conference, Y.S. Lee, a spokesman for the Korean Air Lines, said, "I strongly believe the aircraft was on course." He said that the plane would have landed if it had been ordered to do so.

In Seoul, South Korea's information minister, Lee Jin Hie, said it was "almost certain" the jet was "attacked by a third country" near the Soviet coast.

The vice president of the Korean airline, Cho Chung Kun, told reporters: "It is highly probable that the jumbo was attacked by fighters of the Soviet Union."

Mr. Lee said to confirm an attack were continuing, but if "proved a fact, it would constitute a grave violation of international law and an inhumanitarian act" and that the country responsible

would be held "duly responsible for all the consequences."

"If this [attack] is true, it should be regarded as very regrettable indeed," Shinzaro Abe, minister of foreign affairs, said in Tokyo.

Mr. Shultz gave a carefully based account of the incident based on intercept radio transmissions.

According to Mr. Shultz, the event unfolded this way:

At 18:12 Greenwich Mean Time Wednesday, a Soviet fighter made

visual contact with the 747. Nine

minutes later, the Soviet pilot re-

ported the jetliner at about 31,000

feet (about 9,400 meters). Five minutes after that, the pilot "fired a

missile and the target was de-

stroyed."

Mr. Shultz said there was no evi-

dence that the Soviet pilots in-

volved in tracking the plane deliv-

ered any warning that it should

land.

"As far as we can see there was

no communication between the

two aircraft except they did track

this aircraft for two and a half

hours. At least eight fighters at one

time or another were around in the

vicinity, and the aircraft that shot

the plane down was close enough for

visual inspection of the aircraft."

Mr. Shultz said:

"The Defense Department officials

said the plane was an Su-15 jet

fighter. The Su-15, code-named

Flagon, is a 1960s-vintage interceptor

plane. Intelligence sources said

the Russians have about 60 Su-15s

based on Sakhalin."

Mr. Shultz said none of the in-

formation he related had come

from the Soviet Union.

South Korea's state-run televi-

sion network, KBS, said the plane

carried 72 Koreans, 22 Japanese, 34

Taiwanese and 112 persons of other

nationalities. KAL said there

were at least 30 Americans aboard.

The plane carried 29 crew mem-

bers.

Seas in the area where the plane

was believed to have gone down

were reported calm, but the tem-

perature was about 50 degrees

Fahrenheit (10 degrees centigrade).

According to survival manuals, a

person can last in such waters for

about 50 minutes. Up to three and

a half hours, there is a 50-50 chance

of survival, and after that time, death is 99 percent certain.

South Korean officials said U.S.

and Japanese search planes were

scanning the area, and Japanese de-

fense radar indicated a large num-

ber of Soviet aircraft appeared to

be flying over the zone.

The last radio contact with the

aircraft was at 3:23 A.M., when

the pilot reported his position as

113 miles (180 kilometers) south of

Hokkaido, a KAL spokesman said.

He said the pilot gave no indica-

tion of any trouble and the weather was

reported good.

However, Japan's Defense Agency

said its radar showed what might

have been the jet about 113 miles

north of Hokkaido near Sakhalin.

Another Korean pilot whose

commercial plane crossed the path

of the Korean jet before it dis-

appeared was quoted in the Anchorage Daily News Thursday as saying the plane appeared to be having radio problems.

U.S. seeks explanation from Soviet, explores steps to show its outrage

By Robert C. Siner

International Herald Tribune

WASHINGTON — President Ronald Reagan ordered the State Department on Thursday to demand "an immediate and full ac-

count" from the Soviet Union of the downing of a South Korean jetliner with 269 people aboard.

The president's counselor, Ed-

win Meese 3d, described Mr. Rea-

gan as "very angry."

Mr. Reagan, who was due to end

his vacation Monday, will instead

return Saturday and meet with his

national security advisers, Mr. Speakes said.

Mr. Speakes said the United

States was weighing options for

what steps to take in response to

the incident.

"I can't speculate on the action

we will take," he said. "It depends

on the Soviet explanation of it."

A State Department spokesman,

John Hughes, said a message from

Foreign Minister Andrei A. Gro-

myko of the Soviet Union that was

delivered to the State Department

did not acknowledge that the Sovi-

et Union had shot the plane down,

nor did it accept responsibility for

the incident.

The Gromyko message as

suggested that the Korean Air Lines

Boeing 747 was flying without

lights and did not respond to sig-

nals from Soviet interceptors and

their efforts to direct it to a nearby

landing site.

Mr. Hughes said Soviet officials

had been informed that the U.S.

government "finds this reply total-

ly inadequate and the U.S. reiter-

ates its demand for satisfactory in-

formation."

For British Politicians, Summer Will End, But Woes Remain

By Peter Osnos
Washington Post Service

LONDON — For a striking number of Britain's most prominent politicians, this has been a forgettable summer.

Prime Minister Margaret Thatcher, who has cultivated a reputation as indomitable, suffered a detached retina and underwent emergency surgery. Neil Kinnock, now considered certain to be the Labor Party's new leader, lost his distinctive, gravelly voice, then almost lost his life when he wrecked the family car on a highway late one night in July.

And David Steel, the Liberals' leader, announced he was taking a three-month "sabbatical" to recover from what was variously described as exhaustion, depression and influenza.

Aside from demonstrating the physical pressures of public life, no doubt aggravated by the intensity of last spring's general election campaign, the misfortunes reflect some other important uncertainties on Britain's political scene.

Mrs. Thatcher, to begin with, emerged from the election in a position of extraordinary parliamentary strength and that remains undiluted. But instead of the promising economic reports that accompanied her

victory, the latest figures show that the long-awaited recovery is already slowing down and could go into reverse.

The crucial trend of exports abroad is lagging. At home, forecasters say inflation may be up to 8 percent again by next year. Deeper than expected cuts in public spending are anticipated just to maintain a minimum version of the conservatives' financial strategy. Unemployment continues to rise.

As a result of these and other indicators, the Confederation of British Industry this week scaled back its bullish prediction of growth to 2 percent for this year (a drop of a half-percent since June) and said growth would probably stop altogether a few months into 1984. "That back-from-holiday feeling" is how The Economic characterized the bad news.

The main political question is whether Mrs. Thatcher will go on resisting demands to give the economy a boost, even though her calls for continuing sacrifice may seem gratifying hollow after yet another failure to sustain a revival. As for her troubled eye, that, she says, is "fine" although it remains bloodshot.

In the Labor Party, during the weeks since Mr. Kinnock's miraculous survival — he emerged with only scratches after his car flipped off the road and was flattened — has consolidated behind him

leader. He has the backing of a majority of the trade unions and local constituency groups, which assures him a comfortable majority over the other main contender for the post, Roy Hattersley.

Mr. Kinnock represents the party's dominant left wing and his greatest challenge, following Labor's won election defeat in modern times, will be to convince the country that the decline is not permanent. A bruising battle is expected for the position of deputy leader. Mr. Hattersley, from the moderate section of the party, is a slight favorite over a leftist, Michael Meacher.

Personally, Mr. Kinnock is believed to favor an alliance with Mr. Hattersley to give the party much-needed unity, and opinion polls show this to be the preferred outcome among Labor supporters. Nonetheless, serious factional differences remain on crucial policy issues such as disarmament and economic strategy. The "hard left," for instance, insists that voters did not finally reject its radical policies, but only the way they were presented.

Mr. Kinnock, 41, is confident he can salvage the party. "Somebody up there likes me," he has taken to saying since the accident.

The case of David Steel is the summer's strangest political drama. The Liberals, whose pact with the

Social Democrats produced a remarkable showing in popular vote, should be riding high. For the first time in 60 years, they (with the SDP) have the real prospect of becoming the country's main opposition.

But as one political analyst observed, "this marriage made in heaven is not working on earth." Many Liberals are reluctant to see their party merged or even permanently affiliated with the SDP. With Mr. Steel supposedly resting, squabbles have erupted over procedural matters, prompting him to write an angry letter to the party's members of Parliament.

If the Liberals want, he wrote, "to potter about on the sidelines, I will be happy to remain a loyal member but not to continue indefinitely as leader." The testiness of the letter, which chastised a number of individuals by name, astonished even Mr. Steel's friends and revealed that the party has much to do in the weeks ahead if the alliance with the Social Democrats is to fulfill its potential as a third force in British politics.

The Social Democratic new leader, David Owen, is also known to be reluctant to merge the parties. For the moment, though, it is Mr. Steel's troubles that overshadow all else. "No wonder Owen is resisting the idea of a merger," wrote Bernard Levin in the London Times. "Who wants to be a Siamese twin with a brother who insists on drowning himself?"

WORLD BRIEFS

Space Shuttle's 'Arm' Passes Test

CAPE CANAVERAL, Florida (UPI) — The astronauts aboard the space shuttle Challenger hoisted a 7,460-pound (3,371-kilogram), dumbbell-shaped object high over their spaceship on the end of a robot arm.

Thursday, proving that the crane can launch giant satellites.

Challenger Captain Richard F. Truly and Lieutenant Commander Dale A. Gardner spent seven hours testing the 50-foot arm with the large simulated spacecraft in its grasp. They then used the arm to place the test weight back in the ship's payload bay for more lifting exercises Friday.

Lieutenant Commander Gardner said the arm did "a super job." Although objects are weightless in orbital flight, they have mass, which requires force to move them. The greater the mass, the greater the force required to start and stop the movement of an object.

Mexican Leader Reviews Performance

MEXICO CITY (UPI) — In a review of his first nine months in office, President Miguel de la Madrid said Thursday his government has controlled the worst of the economic crisis.

"The challenge is enormous; in terms of the economy, it is like war," Mr. de la Madrid said in his first state of the nation address since taking office Dec. 1. "The destiny of the nation is at stake."

Mr. de la Madrid offered a cautious appraisal of his administration's party to control inflation and unemployment, restore public faith in government and resolve the foreign debt crisis. "I am aware that the crisis is not overcome yet," he said. "The only thing that my government affirms is that the most serious aspects are under control."

Britain Protests Arrests in Zimbabwe

LONDON (Combined Dispatches) — Britain summoned Zimbabwe's acting ambassador, Munyaradzi Kajese, to the Foreign Office on Thursday, increasing the diplomatic pressure on its former colony to release six white Zimbabwe Air Force officers rearrested after being acquitted on sabotage charges.

"I intend to put our very strong feelings on this subject to him and ask him to make urgent representations to his government," said Malcolm Rifkind, the Foreign Office minister of state, who indicated that Britain would be satisfied if the six airmen, four of whom hold joint citizenship in Britain and Zimbabwe, were deported.

The six officers have been in jail for a year since being arrested on charges of helping South African agents sabotage 13 aircraft. They were acquitted Wednesday after a judge ruled that their confessions had been made under police torture.

Bignone Plans to Pardon Isabel Perón

BUENOS AIRES (AP) — President Reynaldo Bignone has announced that he will issue a pardon soon for former President Isabel Perón, who has lived in Spain since her release from jail in 1981, the news agency Telam said.

The Peronist Party has invited Mrs. Perón, still its nominal head, to attend a convention this weekend to choose candidates for general elections Oct. 30, but she has not announced her plans.

The clemency decree will make it possible for her to run for office if she wishes. "The decree will be issued soon," General Bignone said Wednesday after a cabinet meeting. Mrs. Perón, elected vice president in 1973, succeeded her husband, Juan D. Perón, when he died in 1974. She was overthrown in a military coup in 1976 and convicted in March 1981 of misusing funds from a Peronist charity.

Mauroy Says Socialists Lack Support

PARIS (AP) — Prime Minister Pierre Mauroy of France acknowledged Thursday in an article in the newspaper *Le Monde* that his government lacked popular support, and called upon leftist groups to "coovey a deep understanding of the action undertaken" since the Socialists came to power in May 1981.

Mr. Mauroy stressed the difficult international and domestic economic situation and the choices facing his administration, saying the crisis was created by a non-Socialist system.

Since the Socialists won the presidency and an absolute majority in the National Assembly, public support for them as reflected in opinion polls has dropped below 50 percent. However, a poll published Thursday showed that only 41 percent of those polled believed the opposition was playing an effective role, compared with 58 percent last June.

Lebanese Hijackers Give Up Ship

LIMASSOL, Cyprus (Reuters) — Twelve Lebanese hijackers who commanded a Romanian ship in the Lebanese port of Tripoli and forced the captain to sail to Cyprus have surrendered to the authorities here, a Cyprus minister said.

Commerce Minister Christos Mavrelis, who negotiated the surrender Wednesday night by radio, said the hijackers said they seized the ship at gunpoint Wednesday to escape heavy fighting in Tripoli.

He said the men boarded the 4,000-ton cargo ship, Iasi, posing as customs officials. No one was hurt in the incident and once at sea the hijackers behaved politely, he added. Mr. Mavrelis said the hijackers surrendered after he had assured them their safety would be guaranteed in Cyprus.

Bonn Denies Refuge to Soviet Soldier

ZIRNDORF, West Germany (Reuters) — A Soviet soldier who had been interned in Switzerland after being captured by Afghan guerrillas has been refused political asylum in West Germany, a West German spokesman said Thursday.

The soldier fled Switzerland in July and made his way to Freiburg, West Germany. The Federal Asylum Office rejected the request of Yuri Ivanovich Vashchenko, saying he had already found protection in Switzerland. But a spokesman said he could still appeal. West Germany would have to await a final court ruling before complying with a request by Switzerland for Mr. Vashchenko to be returned, he said.

The Russian was one of eight soldiers captured by Afghan guerrillas and later held in a military detention camp in Zugberg, south of Zurich, under an agreement negotiated by the Red Cross with the guerrillas and the countries concerned. A Swiss Foreign Ministry spokesman said West Germany has not yet replied to Switzerland's request for his return.

Arafat to Talk to UN Geneva Meeting

GENEVA (AP) — Yasser Arafat, chairman of the Palestine Liberation Organization, will address the United Nations Conference on Palestine Friday, a UN spokesman said.

Mr. Arafat arrived in Geneva Thursday by private jet from his Tunis headquarters. He had not been expected to attend the 10-day meeting, which opened Monday. His only other speech to a UN meeting was in 1976 in New York, when he held an olive branch in one hand and a revolver in the other.

At the Palais des Nations building, where the meeting was being held, the Palais des Nations building, where the meeting was being held, tanks.

Security Council Ends Chad Debate

UNITED NATIONS, New York (Reuters) — The UN Security Council has achieved an inconclusive four-week debate on Chad's allegations of Libyan aggression. But Chad reserved the right to return to the 15-nation body at any time.

The United States said Wednesday that the council had failed to produce a resolution, despite Chad's strong case, because of the influence of radical members of the nonaligned group, encouraged by Libya's great benefactor and protector, the Soviet Union."

Libya's delegate, Awad Burwin, said there was a civil war in Chad but that some countries, led by the United States, were trying to portray it as a conflict between Libya and Chad.

Russians Allowed to Use U.S. Beach

NEW YORK (UPI) — Soviet diplomatic residents of an estate in Glen Cove, New York, will be allowed to use the municipality's beaches for the Labor Day weekend, Saturday to Monday, a U.S. judge ruled Thursday.

Glen Cove banned the diplomats and their families from using the recreational facilities in May 1982 after Mayor Alan M. Parante asked the Russians who are assigned to the United Nations, to resume paying property taxes on the Long Island estate. They stopped doing so after 1971 court ruling in their favor.

Judge Joseph McLaughlin of U.S. District Court said the eight permanent residents of the estate may use the beaches without paying any residential fee for tennis court and golf course privileges, pending a court hearing Sept. 21. The U.S. government had asked the judge to order the mayor to rescind his action.

For the Record

PARIS (UPI) — Seventeen hostages freed Wednesday after being held for four days by four hijackers of an Air France jetliner, left Thursday, an official of the airline said in Paris.

NATO Maneuvers Are Set

CASTEAU, Belgium — More than 11,000 troops from 12 North Atlantic Treaty Organization countries will take part in a field exercise in Denmark, beginning Sunday and continuing into Oct. 2.

Marcos Opponent Promises Boycott Of Elections Unless President Quits

By William Chapman

Washington Post Service

MANILA — The leader of Philippine opposition forces threatened Thursday to boycott all future elections unless President Ferdinand E. Marcos resigns and a caretaker government acts to assure fair elections and a new constitution.

Salvador H. Laurel, chairman of the principal organization opposed to Mr. Marcos, said that such a radical change is necessary because of widespread public skepticism over the circumstances of the assassination of Benigno S. Aquino Jr.

Demands that Mr. Marcos resign have become frequent since Mr. Aquino's death, but Mr. Laurel is the first significant leader to threaten abandoning opposition politics if he does not.

For three weeks there has been speculation that Mr. Marcos, in power for 18 years, is ill and that a struggle is under way in his inner circle over a succession.

But there have been no indications that a resignation is imminent, and diplomatic observers regard the idea of his naming a caretaker government as highly improbable. Most likely, they say, Mr. Marcos would be replaced by a military leader; his wife, Imelda; or some trusted intimate.

Mr. Laurel's ultimatum was taken here by some as an act of desperation among the opposition, whose lack of strong leadership has been aggravated by the killing of Mr. Aquino.

"Aquino was a shrewd strategist who had the talent to weld together

the disparate elements of the opposition," a Western diplomat said Thursday. "The question today is whether the opposition can now find a voice."

Mr. Laurel considered the main leader of the united opposition. He is chairman of the United Nationalist Democratic Organization, which embraces 12 political groups opposed to Mr. Marcos.

At least one other opposition figure, Jose Diokno, has taken roughly the same position as Mr. Laurel. In a speech to the Manila Rotary Club, Mr. Diokno, whose organization is not a part of Mr. Laurel's grouping, said elections were useless while the Marcos government controlled the voting process.

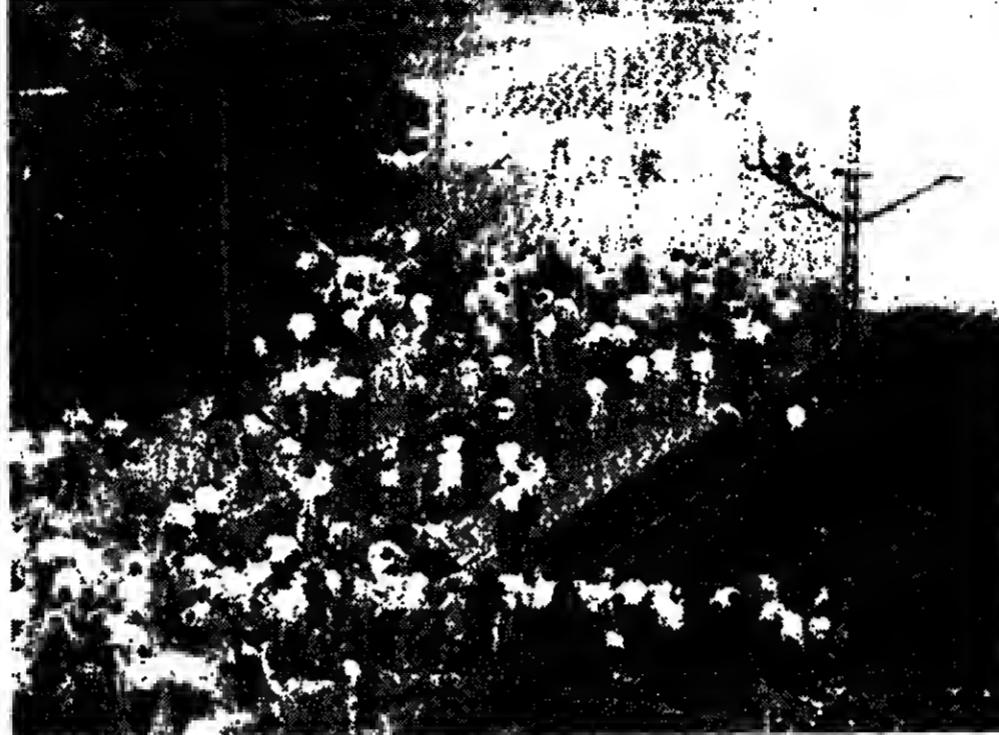
An election for 180 seats in the National Assembly is scheduled for May, and Mr. Marcos's current term as president does not expire until 1987.

Mr. Laurel laid down four conditions for the caretaker government he proposed — a truthful investigation of the Aquino assassination, amnesty for all political prisoners, a new constitution and a general election for both the presidency

42 Die in Brazil Explosion

United Press International

SALVADOR, Brazil — A derailed train loaded with gasoline exploded in flames, turning a northern town into an inferno that killed at least 42 people and injured more than 100.



Supporters of the Solidarity movement clashed with police in Nowa Huta, Poland.

Polish Media Say Solidarity Protest Failed

Compiled by Our Staff From Dispatches

WARSAW — Poland's state-run media claimed Thursday that the violent Solidarity demonstration on Wednesday was a failure, but Solidarity's founder, Lech Walesa, called the protest against the regime the "biggest success we have ever scored."

The police early Thursday removed a floral cross used as a Solidarity rallying point in Warsaw

hours after supporters of the union demonstrated in at least nine cities.

Uniformed police cordoned off the area around Saint Anne's Church in Warsaw's Old Town and removed the floral memorial to Cardinal Stefan Wyszyński, the Polish primate who died in May 1981.

During demonstrations on Wednesday, the third anniversary of the accord that legitimized Solidarity as a free union, the police clashed with 10,000 steelworkers in the southern city of Nowa Huta.

Harry Trimble, a Los Angeles Times correspondent, who was detained for more than an hour, reported that more than 100 people were injured.

The police also clashed with thousands of union backers in Gdańsk and Wrocław, and dispersed demonstrations in Warsaw and at least five other cities.

The hard-line newspaper *Zwierzec Wolnosci* said that "attempts to incite anxiety were not met with social approval once more."

The news agency PAP in a commentary under the headline "Terrorists Find No Support," said that "against the background of dispatches on the quiet and honest work coming from all over Poland Wednesday, indignation was aroused by attempts to incite unrest and tension and disturb public order."

But Mr. Walesa said in Gdańsk, "It's the biggest success we have ever scored," United Press International reported.

He said supporters showed they were willing to display their sympathies publicly despite the overwhelming forces used to try to intimidate them.

Mr. Walesa said he and his advisers would discuss what plan of action Solidarity would follow next to press the regime to fulfill the promises it made to workers in Gdańsk three years ago.

Soviet Admits Jets Intercepted And Warned Intruding Plane

(Continued from Page 1)

vacationing at a spa in the northern Caucasus.

The diplomats said the Tass report appeared to have laid the groundwork for a formal Soviet reply to Western condemnation over the attack on the Korean plane by saying that the aircraft had twice violated Soviet airspace, then ignored warnings from the Soviet fighters to land. A similar sequence was cited in April 1978, when after initial delays the Kremlin acknowledged that another Korean Air Lines plane, a Boeing 707, had been fired on by a Soviet fighter over Soviet Karakalpakia of Tashkent, prompting it to land on a frozen lake. Two passengers died.

According to figures provided by the London-based Institute for Strategic Studies in its 1982-83 publication, "The Military Balance," Soviet forces in the region include the principal bases of the Soviet Pacific fleet and a ring of combat air bases, some of them on Sakhalin.

As in the 1978 attack, which occurred in a region where there are Soviet missile bases, the current incident took place in an area of acute

Premier's Crisis Plan Causes An Uproar in British Columbia

By Douglas Martin
New York Times Service

VICTORIA, British Columbia — Flush with an election victory, the government of this Pacific Coast province is proposing a series of actions whose cumulative effect is expected to be extremely radical.

At a time of severe economic crisis, Premier William Bennett has announced plans to dismiss or otherwise remove a quarter of the provincial government's employees, about 11,000 people.

Among other things, he wants to abolish the Human Rights Commission, take tenure away from college professors, abolish rent controls, as well as the office for resolving tenant complaints and partly restore public medical insurance to the private sector.

Not since the unemployed rioted in Vancouver during the Depression have emotions been so stirred. The government rails about the irresponsibility of its "socialist" opponents, and its opponents call those in power "Nazis" and worse.

"The usual political wisdom is to promise people more and not to tell them how you're going to pay for it," Mr. Bennett, leader of the Social Credit Party, said in an interview. "We promised them less."

David Barrett, leader of the opposition New Democratic Party, responded: "This is like a war where you send the wounded to the barricades."

The confrontation centers on 26 separate bills, among them measures that would also curb various

forms of social welfare and aid to the handicapped.

Although the legislation has not been passed, the Royal Canadian Mounted Police paid unexpected visits to the homes of government workers shortly after the legislation was introduced July 7 and demanded keys to their offices and government cars.

The legislation originally proposed that government workers could be dismissed "without cause." Although that phrase has been removed, labor leaders believe the law would give the provincial government the same latitude.

Further legislation is also expected, government officials say, to restrain the power of private unions and weaken the province's pro-worker labor code. That has led to a broad coalition of private and public sector unions, working in an organization called Solidarity.

There have been demonstrations involving tens of thousands of people. Placards have denounced the government's approach as "jackboot," and labor leaders have threatened to call a general strike.

The party increased its majority in the 57-seat legislature by three seats, to 34. So it has an absolute majority and eventually can probably pass anything it wishes.

Except for Mr. Barrett's term in office from 1972 to 1975, Mr. Bennett or his father, W.A.C. Bennett, has held power for the past 30 years.

William Bennett is, in effect, demolishing many of his father's accomplishments, a number of which were designed to increase public-sector power. In 1961, when he tried to expropriate the province's electric company, W.A.C. Bennett was accused with the chants of "Sieg Heil" and "Dictator!" his son.

W.A.C. Bennett also brought universal public medical insurance to British Columbia, bought the ferry service from the mainland to Vancouver Island and built roads, bridges and other public works. And he always kept a balanced budget.

The current premier, pointing out a projected budget deficit this year of \$1.6 billion, says of his successors: "It's more than philosophical, it's an economic necessity. We have no choice." He also says that his father and Mr. Barrett ran governments "for the times."

Both sides expect long discussion on the proposed legislation, particularly on the human rights changes, which have been denounced by Roman Catholic leaders and Canada's five leading Protestant churches.

Under the proposed legislation, employment advertisements could specify the applicants they wanted by race, religion and sex, something that is now illegal. Hindu groups are worried that such changes will be directed against them.

"Where are you going?" the stocky man shouted. He was later identified as an officer in plainclothes. "Get out of here! Go back to Larkana!"

Without waiting for a reply, he hauled the driver from the car and beat him on the arms and shoulders with a long bamboo staff. A policeman hit the driver with a rifle butt. Bruised and bleeding, the driver stumbled back into the car and drove off.

"Now you've seen martial law with your own eyes," a young banker who opposes the government of General Mohammed Zia ul-Haq said later, when told of the fictitious letter.

When they reached the border, there was an added twist.

The police boarded their train and confiscated a year's worth of undeveloped color film. As the American told it later, they explained that "normally foreign friends don't visit Tibet and we have to see what you photographed to make sure you didn't take any pictures of anything you shouldn't have."

In another case, an American teaching English at Beijing's Iron and Steel Institute applied to bring his fiancée to China to get married. The authorities at the institute were reluctant because he had been seen earlier in the company of a young Englishwoman and therefore might already be married. As a banfa, they had him sign a statement saying that if he had ever been married before, he would have gotten a divorce.

But some banfas can turn sinister. Another young American, working at the New China News Agency, visited Tibet with his wife last spring after getting the necessary travel permit from police in neighboring Xining. Since few foreigners are allowed into Tibet, his superiors decided later that someone in the agency must have provided him with a letter to arrange his trip.

Under Mr. Deng's banfa, old officials who retire may now keep their salary and fringe benefits. They also become eligible for extra pensions and retain their right to read official documents and sit in on meetings.

Such concessions cost plenty, but Mr. Deng's banfa may be working. More than 470,000 veterans, one-sixth of those who held posts before the Communist takeover 34 years ago, have retired.

The banfa is an antidote to a system choked with petty, conflicting and secret regulations. One ministry alone reportedly issued 1,000 new laws last year. Ordinary Chinese must live with legalistic nitpicking. A translator in Beijing heard that his wife was coming on vacation from her job in Shanghai. Couples are not infrequently assigned to different parts of the country. But he could not rent a hotel room for their reunion because his residence permit listed him as living in a dormitory. His employer arranged a banfa that sent him on temporary assignment to Shanghai to see his wife.

To be sure, some banfas border on the tame. Some weeks ago, three fire engines were lined up

rooted in these realities. Or, as Mr. Bennett said, "If you make \$20,000, you can't go on continuing to spend \$35,000."

The problem is flagging worldwide markets for the natural resources that British Columbia has in abundance. The province has been hammered by sluggish sales of lumber, minerals and natural gas.

Mr. Bennett's re-election victory on May 2 capped a campaign in which two clear ideologies were presented. The premier preached a sermon of government restraint, although not specifying the breadth of the actions he planned to take. Mr. Barrett of the New Democrats, a former premier who held office from 1972 to 1975, emphasized jobs, even if the government had to provide them.

The party increased its majority in the 57-seat legislature by three seats, to 34. So it has an absolute majority and eventually can probably pass anything it wishes.

Except for Mr. Barrett's term in office from 1972 to 1975, Mr. Bennett or his father, W.A.C. Bennett, has held power for the past 30 years.

William Bennett is, in effect, demolishing many of his father's accomplishments, a number of which were designed to increase public-sector power. In 1961, when he tried to expropriate the province's electric company, W.A.C. Bennett was accused with the chants of "Sieg Heil" and "Dictator!" his son.

W.A.C. Bennett also brought universal public medical insurance to British Columbia, bought the ferry service from the mainland to Vancouver Island and built roads, bridges and other public works. And he always kept a balanced budget.

The current premier, pointing out a projected budget deficit this year of \$1.6 billion, says of his successors: "It's more than philosophical, it's an economic necessity. We have no choice." He also says that his father and Mr. Barrett ran governments "for the times."

Both sides expect long discussion on the proposed legislation, particularly on the human rights changes, which have been denounced by Roman Catholic leaders and Canada's five leading Protestant churches.

Under the proposed legislation, employment advertisements could specify the applicants they wanted by race, religion and sex, something that is now illegal. Hindu groups are worried that such changes will be directed against them.

"Where are you going?" the stocky man shouted. He was later identified as an officer in plainclothes. "Get out of here! Go back to Larkana!"

Without waiting for a reply, he hauled the driver from the car and beat him on the arms and shoulders with a long bamboo staff. A policeman hit the driver with a rifle butt. Bruised and bleeding, the driver stumbled back into the car and drove off.

"Now you've seen martial law with your own eyes," a young banker who opposes the government of General Mohammed Zia ul-Haq said later, when told of the fictitious letter.

When they reached the border, there was an added twist.

The police boarded their train and confiscated a year's worth of undeveloped color film. As the American told it later, they explained that "normally foreign friends don't visit Tibet and we have to see what you photographed to make sure you didn't take any pictures of anything you shouldn't have."

In another case, an American teaching English at Beijing's Iron and Steel Institute applied to bring his fiancée to China to get married. The authorities at the institute were reluctant because he had been seen earlier in the company of a young Englishwoman and therefore might already be married. As a banfa, they had him sign a statement saying that if he had ever been married before, he would have gotten a divorce.

But some banfas can turn sinister. Another young American, working at the New China News Agency, visited Tibet with his wife last spring after getting the necessary travel permit from police in neighboring Xining. Since few foreigners are allowed into Tibet, his superiors decided later that someone in the agency must have provided him with a letter to arrange his trip.

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DRIFTING OIL RIG — A rescue tag stands by the Esso oil rig Key Biscayne, adrift in heavy seas about 120 miles north of Perth, off Australia's west coast, after two tow lines broke. Despite high winds, three Australian Navy helicopters rescued 43 crew members Thursday, and nine men stayed aboard to reset the tow lines when the weather calmed.

Medicare Hospital Rates Start to Be Standardized

By Robert Pear
New York Times Service

WASHINGTON — The Reagan administration has announced the first big step toward standard national rates for hospitals treating elderly and disabled patients under the Medicare program.

Officials disclosed on Wednesday the basic standard rates Medicare would pay for a hospital case in each of nine regions of the country, ranging from a high of \$3,021 in urban areas of Illinois, Michigan and Ohio to a low of \$2,421 in rural areas of Arkansas, Louisiana, Oklahoma and Texas.

In calculating the government's actual payment, the basic rate is multiplied by a factor designed to reflect the cost of different procedures. Coronary bypass surgery, for example, is given eight times the weight of a cataract operation.

The new system, which uses predetermined rates for all patients with the same illness or injury, is known as prospective payment. It takes effect when a hospital begins its next fiscal year, on or after Oct. 1. The system was designed to help the government control Medicare spending for hospital inpatient services, which rose from \$3 billion in 1967 to \$35 billion this year.

There is much uncertainty about the effects of the new payment system. U.S. officials said it would not have a sudden or dramatic effect on Medicare patients. Hospital officials said the system would give them new incentives to control costs because they could keep all the money they saved by holding their costs under the rates fixed by the government.

If the system does help restrain hospital costs, officials said, it would also slow the increase in out-of-pocket costs for Medicare patients admitted to the hospital.

Medicare patients already must pay a deductible, now \$304, for the first day in a hospital and an additional fee of at least \$76 for each day after the patient's first two months in the hospital.

At a news conference, Dr. Robert J. Rubin, an assistant secretary of health and human services, and Carolyn K. Davis, head of the federal Health Care Financing Administration, said they would closely monitor the behavior of hospitals to make sure they did not arbitrarily cut short hospital stays.

Mrs. Davis said that the government would spot-check patient records to make sure that hospitals correctly classified cases and did not assign them to categories paying more than was justified.

In August 1982, Congress directed the Reagan administration to devise a proposal for prospective payment of hospitals under Medicare. Four months later Richard S. Schweiker, then secretary of health and human services, submitted an elaborate proposal to Congress. In April of this year, Congress adopted the proposal.

Spokesmen for the hospital industry had criticized the administration's original proposal as too rigid. Congress therefore allowed regional variation in Medicare rates for the first three years of the new system. But starting in October 1986, the Medicare rates are supposed to be standard across the country, with one rate for urban areas and another for rural areas.

For further information please apply to:

Mr. Rodolfo Bay
SPANTAX S.A.
Paseo Marítimo 38
Palma de Mallorca, Spain

For further information please apply to:

Mr. Bizenjo, about 70, chairman of the Pakistan National Party, and Mohammed Hussain Azad of the Pakistan People's Party, were arrested as they tried to flee the tear gas. The exact number of people taken into custody was not immediately known. Police used minimum force to disperse the crowd.

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September 2, 1983

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Brown Is Beautiful

by Courtland Milloy

WASHINGTON — As the unofficial office summer-tan judge (my expertise is derived from being born tan), I am frequently asked by those returning from vacations to rate their skin tone.

"Look, I'm darker than you!" some say excitedly.

"Uh, could you hold out your arm," others say. "I just want to check something."

Sure thing, pal. I just wish I had some "Honorary Negro" buttons to pass out. I enjoy this summer sideline; never thought I'd see the day when brownier was better. But tanning is in, folks. Dare I ask why?

During these last weeks of summer, sunbathers quit beaches with complexions spanning the skin-tones spectrum, including black, burnt pink and fire-engine red. Laid out, bellies up, they are engaged in a modern form of sun worship where self is sacrificed instead of virgin.

There are countless sunning systems and there are lotions, potions, oils, creams and screens for quick tans and slow fades. Never mind that thousands die from skin cancer each year; while countless others suffer heat strokes and dehydration. The risks are well known, but apparently worth taking in pursuit of that perfect tan.

So why?

"I want to be a sort of olive brown," says one woman as she fries her face off. "I have a white jump suit that I can't wait to wear." Judging from her overexposure, she may have to wait until next summer. In a park, a man has taken his shirt off and stretched out on a bench. Sunbathed and drenched with sweat, he puts his shirt back on and struts back to his office. "My girl thinks my 'tan line' is sexy," he says.

For some reason, people associate a glowing tan with good health. A smooth caramel color, if acquired, supposedly suggests that one has been energized by nature's most powerful force.

No Vacation for the Unwary

by Joseph Fitchett

WASHINGTON — To ease the pain of returning from summer vacation, listen to some holiday horror stories gathered by a British journalist: Beware, for example, of Italian breakdown artists just outside Paris. Their specialty is to station themselves in a car with Italian plates on the roads bringing German, British, Dutch and Belgian tourists north from the sun. Flagging down cars with foreign plates, the con men explain that they don't have enough money for car repairs. So, they say, they are prepared to sell the designer leather items they have in their car for exorbitant prices — \$100 for an \$800 jacket, for example.

Even if a tourist feels no compassion for the "stranded" driver, he may well be tempted at the thought that the Italian is selling off his samples cheap. Those unwary enough to make a deal — and Paris police say there are enough suckers to make a living for a score of these con men — wind up with imitation leather goods that can be bought cheaply in Paris chain stores, where the con men get their supplies.

Another kind of Italian breakdown artist operates in filling stations on Italy's superhighways. When a foreign motorist stops for gas, the criminal gets close enough to puncture a tire with a nail, causing a slow leak. When the motorist eventually pulls over with a flat and begins to replace the tire, a team that has followed on a motorbike can swoop alongside, remove a handbag from the car and roar off with impunity, knowing the motorist cannot follow. The same sort of technique is also used at airports on tourists who have just rented cars and not yet driven off.

Credit cards are another major target of con men. The real worry for tourists is not the card itself: as soon as a lost card is reported, the owner's liability stops. Nor need tourists fear the merchant who rewrites the voucher, altering or adding figures to reduce the bill — no worry, that is, if the tourist kept his receipt.

A subtler fraud involves running a customer's credit card through the franking machine several times to get several vouchers, which can be used to write up and collect payment for nonexistent sales. Another version is practiced by waiters and salesmen who take the name and number on a customer's card and use the information to order merchandise by telephone from mail-order houses, theater-ticket agencies and other over-the-phone billing agencies, including even airlines.

Stories like these are part of the catalog of vacationers' woes in a new book by a British journalist, Bryan Moynahan, who says he believes tourism is too big a business to be left to travel agents and who offers advice on how to cope with the travel industry.

In "Pain's Paradise: A Trick-of-the-Trade Guide to the Great Tourist Rip-Off," published in England by Pan Books (£1.75), Moynahan — the European correspondent for the Sunday Times of London — explains some of the economic facts of life in the travel business.

Already an industry growing more than \$100 billion a year, travel and tourism will be second only to the arms business as a money-spinner by the end of this century, he says. Because of the giant volume of business, even a few cents gained off each traveler amounts to big profits.

Travelers' checks are a good example of Moynahan's findings. Nearly \$20 billion worth of them were issued last year, if the average charge was one percent, travelers paid \$200 million for this method of protecting their money.

With a slight extra effort, according to Moynahan, a traveler could insure his money with any large insurance company for less than one percent — and he would probably find more places willing to accept his cash, and at a better exchange rate than travelers' checks.

For banks, of course, the big profit on travelers' checks is not the fee but the chance to use a traveler's cash from the time a check is purchased until it is redeemed. During this time, the cash can be invested by the bank, usually at



Illustration by Fernando Kraft

the high interest rates charged for short-time financing.

The money held by a bank in this way is known as "the float," and Moynahan reports that the American Express float, for example, averaged \$2.3 billion in 1979. On average, Americans cash their checks within 30 days, but Europeans hold checks longer (the British average 45 days), and Arabs tend to take more than two months.

Perhaps the easiest way for a traveler to save money is to watch out for stiff mark-ups on telephone calls from hotels. These surcharges, even on direct-dial calls where no operator is involved, amount to a 160 percent mark-up in one international chain's hotels in West Germany, Moynahan reports, adding that London hotels average the same extra charge. Geneva has a 100 percent mark-up, while Paris hotels charge 25 percent. (Even a collect call can involve a surcharge.)

These surcharges have become so high that the British Telephone has waged an international advertising campaign, urging Americans to make a brief call home — where surcharges are illegal — to ask the other party to call them back. A Teleplan has been introduced by American Telephone and Telegraph to reduce European surcharges: hotels that agree to reduce their rates get free publicity about having a calling on their surcharges. But, Moynahan writes, one hotel chain "joined with an under-taker not to surcharge more than 100 percent."

Analyzed as money machines rather than pleasure palaces, hotels take on a different appearance.

The average tourist spends a quarter of his or her time shopping, and you don't want people to spend money anywhere else than in the hotel," according to a hotel designer, Philip Brown, as quoted by Moynahan. "That is why modern hotels have ... brought the shopping street into the hotel."

The designer must also try to keep guests nearby in the hotel beach — known in the trade as "tanning yard." Owners prefer guests who don't swim too much. "People who swim don't

drink nearly as much as people who only sunbathe," Brown explains. So many hotel pools are designed to be attractive to look at while offering few straight, deep stretches inviting a long swim, Moynahan says.

Recorded background music also is chosen for commercial reasons. Snappy music encourages the quick turnover sought in a hotel coffee shop while slower, more classical music is preferable in an expensive hotel restaurant because it encourages people to linger — and spend.

While alerting tourists to some of these tricks of the trade, Moynahan also lists some traveler's rights. In most countries, for example:

• You cannot be refused a room just because you have no baggage. Only the lack of proper identification is legal grounds for not admitting a guest.

• If food or wine is bad, you are entitled to reject the meal and refuse to pay for it. But you must pay for what you eat. If you eat half a course before sending it back, you owe half its price. If you refuse to pay anything, the restaurant can demand your name and address in order to sue you. But it has no right to detain you once you give your name and address.

• The words "Not Responsible for Hats and Coats" have no legal weight. If a waiter or cloakroom attendant takes your coat, the restaurant is liable for its damage or theft — though not for anything left in the pockets. (The restaurant is also liable if a waiter spills anything on a customer.)

• Airlines whose international flights are delayed more than four hours are responsible for compensation — a night in a hotel, for example. But they are not liable for such "unforeseen damage" as the traveler's missing a vital business meeting.

• Finally, if the hotel where a travel agent sent you turns out to be a nightmare, photograph it as evidence. If you can prove discrepancies between the reality and the agent's brochure, the agent is liable — and a tough traveler can sue for money back and for loss of enjoyment.

Perilous Tales From the Vienna Woods

VIEENNA — Potential death lurks in one of Austria's most idyllic spots, the Vienna Woods — virus-bearing ticks, which authorities predict may infect 200 persons this year.

In fact, the government says most of Austria, including the border region with Italy, is infested by the ticks, and so are large areas of Germany, Hungary, Czechoslovakia, Switzerland and Yugoslavia.

Despite a widely publicized immunization campaign during the last 3 years, Austria recorded more than 600 cases of meningitis — 5 of them fatal — caused by ticks in 1982.

"The ticks carry a virus that causes meningitis, for which there is no cure and no effective treatment," says Dr. Hans Hofmann of Vienna's Virological Institute.

"Symptoms of the disease include high fever, inflammation of the brain membranes, vomiting,

ing, sleeping sickness, muscular weakness and paralysis," he explains.

Adds an official of the immunization campaign: "The illness is more frequent in the early summer and the fall, when the weather is just at the right temperature for the ticks and when thousands of people tend to go walking or mushroom-picking in the woods."

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That Unforgettable Day Americans Never Remember

PARIS — Americans have got it wrong for years. "July 4 is not Independence Day — Sept. 3 is," says Dr. Joan R. Challinor, who teaches early American history at American University in Washington. "Declaring independence is not achieving independence. Seven years passed between the time we declared it and the time we got it."

Dr. Challinor has a point. The American Revolution did not officially end until the Treaty of Paris, signed by David Hartley

MARY BLUME

Great Britain and John Adams, Benjamin Franklin and John Jay for the United States, stated that "His Britannic Majesty acknowledges the United States ... to be free sovereign and independent States."

The Treaty of Paris was signed on Sept. 3, 1783, in the Hotel de York, at what is now 56 Rue Jacob on the Left Bank. Immediately after the signing, the participants dashed out to Versailles to witness another treaty, the Treaty of Versailles, which ended the wars that had been waged between Britain and France, Spain and the Netherlands. The American Revolution, as the historian Jonathan R. Dull writes, was only part of a greater conflict:

"By the spring of 1782, the war began in Massachusetts had spread to the shores of Europe, Africa and Central America and engaged the military and naval forces of much of Europe. It should be described as four wars fought against Great Britain: by the United States to secure her independence, by France to improve her position in the European balance of power, by Spain to recover possessions seized from her in other wars, and by the Netherlands asserting her trade rights."

The momentous and almost totally forgotten signing of these treaties is being celebrated this year and, most particularly, this weekend in the United States and in Paris. On Friday, French events that the public may participate in include a 10 A.M. mass at Notre Dame and at 9 P.M. a historical pageant in the park of the Château de Versailles, which will feature such scenes as Washington crossing the Delaware (a Louis XIV basin will stand in for the raging river) and which will end with the kind of monumental fireworks display at which the French excel.

"The most important event is the fireworks, because fireworks turn gunpowder into something beautiful, and it seems to me that's an appropriate way to celebrate a peace treaty," Dr. Challinor says. She is founder and chairman of the National Committee for the Bicentennial of the Treaty of Paris. The French have formed a Comité d'Honneur Pour la Célébration du Bicentenaire des Traites de Versailles et de Paris.

The actual anniversary of the signing, on Saturday, will be celebrated principally in a march up the Champs-Elysées, beginning at 10 A.M., by visiting Americans dressed in Revolutionary uniforms. These volunteer regiments, sticklers for accuracy, roll their own cartridges, and the U.S. Embassy has a hard time procuring the proper gunpowder for their muskets.

In Britain, the signing of the Treaty of Paris will be celebrated later in the year, notably by a Thanksgiving Day service at St. Paul's and by the donation of a new pair of gates to replace those at Grosvenor Square that were melted down in World War II.

In the United States, festivities range from a covered-wagon trek in Pennsylvania to flights by a Treaty of Paris balloon and many exhibitions, including one at the Smithsonian that will display a love letter Benjamin Franklin wrote to a Frenchwoman in the form of a treatise. Britain has even sent its copy of the Treaty of Paris for display through Oct. 30 at the Museum of the City of New York. In January 1984 the final ratification of the treaty by the Continental Congress will be commemorated at Annapolis, Maryland, in 1783 the capital of the United States.

Commemorative stamps, scarves and enamel boxes are also on offer, the Smithsonian is making a film for American television about the treaty negotiations, called "The Work of Peace," and by the time the festivities end, more than 600 institutions across the United States will have displayed material designed to familiarize Americans, finally, with the treaties. Most Americans, says Dr. Challinor, assume that the war for independence ended with the victory at Yorktown.

"Battles are dramatic, peace negotiations are long," she says. "They are arduous, they are complicated. It is easier to celebrate a battle than a peace."

Sept. 3 has been declared a day of celebration by President Ronald Reagan, the last part of a bicentennial triptych that began with celebrations of the Declaration of Independence in 1776 and of the battle of Yorktown in 1781.

France entered the fight on the side of the rebels in 1778 and if the French had never been shy about reminding Americans of their contribution — "The United States was born at Versailles," says a pamphlet by the Versailles Chamber of Commerce — no one contests the importance of their aid.

Article 10

The above is a copy of the original Treaty of Paris, signed in 1783, which ended the American Revolution. It was signed by John Jay, Benjamin Franklin, and John Adams for the United States, and by the British for Great Britain. The Treaty was signed on September 3, 1783, in Paris, France. The Treaty of Paris officially ended the American Revolution, which had begun in 1775. The Treaty of Paris established the United States as an independent nation. The Treaty of Paris also established the boundaries of the United States, which included the Great Lakes and the Mississippi River. The Treaty of Paris also established the boundaries of Canada, which included the Great Lakes and the Mississippi River. The Treaty of Paris also established the boundaries of the United States, which included the Great Lakes and the Mississippi River. The Treaty of Paris also established the boundaries of Canada, which included the Great Lakes and the Mississippi River. 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TRAVEL

Making a Beeline Through Bern

by Alan Levy

BERN — Straightforwardly Swiss, this capital city reveals itself to the tourist in a straight line, 1.42 kilometers (nearly a mile) long, leading from the railroad station to the Bear Pits that recall how Bern got its name. Along the arched medieval street, which changes its name three times, there are patrician houses and artisans' workshops, statuary and surprises, including the home of Einstein's Theory of Relativity.

The attractions begin on arrival in the train station on the main rail line between Zurich and Geneva. Inside the station, bear far right from the concourse until you almost collide with a giant fibreglass head of St. Christopher. Here, in a corner of the station, are preserved some of the medieval foundations of old Bern, which was established in 1191 by Duke Berchtold V von Zähringen.

The search for a name was simple. Legend has it that the duke ordered a hunt and decreed that his fortification would take its name from the first animal killed — in legend, a bear (in German, *Bär*, plural, *Bären*).

The city's coat of arms, showing a bear, first appeared in 1224.

Take the left escalator up to Spitalgasse, which is the first of four names for the street you will stroll. Mostly closed to private cars, it is, artistically, anything but pedestrian. The display windows of Loeb's department store are bound to stop you in your tracks: a moon of cabbage, for example, shining over a mountain of sauerkraut and, down at the bottom, a tiny mouse nibbling at the kraut.

Bern's trolley tracks divide around several of the 11 historic stone fountains whose colorfully painted pillars and vividly sculpted, often allegorical, statues — all erected around 1550 — give the Old City its enchantment. The first on this route is a jolly bogginner and the last a glistening blue Lady Justice, sword and scales in hand, with pope, emperor, sultan and mayor at her feet. In between, are a fierce musketeer, a carnival ogre, Samson without Delilah, and, inevitably, a Bern Bear with Duke Berchtold V's coat of arms.

The first Gothic landmark is the Prison Tower, which served as the city's west gate from 1250 to 1350 and can be distinguished from the more famous Clock Tower by its one-handed clock. Its interior is now a small vertical information, seminar and museum area, with changing exhibitions that are often of interest. If not, the visitor can still climb to the top and examine the clockwork.

Between Prison Tower and Clock Tower, the street, now called Marktgasse, leads back through time to the original city gate, which lasted only until 1250, when Bern expanded westward. The 10-foot-tall (3-meter) stone inner core of the Clock Tower, dating to the late 12th century, is the oldest construction in the city. The tower's interior and eastern wall, however, were made of wood, and, like most of Bern, were destroyed by fire in 1405.

The city was then rebuilt in sandstone, including the fourth wall of the tower. From 1405 to 1530, its bell was struck by hand, but, in 1527, Kaspar Brunner "experimented" with mechanizing the clock. His three-year experiment has kept nearly perfect time ever since, never varying by more than 60 seconds a day even during the time when the best clocks were expected to be several minutes off. Its three disks and several faces also display the 24 hours of the day, the day of the week, the date and month, signs of the zodiac, positions of the sun and other planets and phases of the moon.

If that were all, this Astronomical Clock would be a mere monument to Swiss watchmaking. What makes it a major tourist attraction is the entertaining figure play, or puppet show, that Kaspar Brunner built and automated to accompany the striking of each hour.

Three minutes before the hour, a cock crows and flaps its wings. Then a series rings three bells as a five-and-drum corps of bears parades. When the cock crows again, the quarter-hour bell strikes, and a bearded Father Time slips his hourglass. Then a bigger-than-life knight in golden armor (made of linden wood) strikes the full hour on the large bell. Father Time counts the hours by moving his lips and scepter, while a horn turns its head with each strike of the bell. The show ends with the rooster's third crow.

The clock recently underwent a yearlong renovation. The trouble was not with the timepiece, but with the tower, since sandstone is almost as vulnerable to pollution as wood is to fire. That is why Bern has to work hard to retain its status as one of the best-preserved medieval cities in Europe. Most of the houses on the street — resplendent in their harmony and rich decorative detail — were built in the 16th and 17th centuries and restored, not for the first time, within the last decade.

Beyond the Clock Tower, the street calls itself Kramgasse (Shopping Street) and, since Bern is one of the antiques capitals of Europe, window-shopping is a bargain. At Kramgasse 49, you have to climb above a restaurant and a hairdresser's to reach the home of E=mc²; the apartment that was Albert Einstein's first address in Bern, from 1902 to 1905. In those three years, he married and fathered his first son as well as the Special Theory of Relativity, the Quantum Thesis, his theoretical explanation of Brownian motion and his Law of Equivalence on Mass and Energy. He often looked back on "those happy years in Bern," where he lived until 1909.

The Einstein Haus, which was opened to the public in 1980, offers an eye-opening ramble through three rooms of the bric-a-brac of genius: Einstein's advertisement offering science tutoring before he found a job in the Patent Office; old report cards showing him to be a whiz in math and physics but an indifferent student of biology and German (he failed the entrance exam for the Swiss Institute of Technology in Zurich); and pictures of him as a dashing young man with a dark mustache. (Hours



Marktgasse's Musketeer Fountain and Clock Tower.

are 10 A.M. to 5 P.M. Tuesdays through Saturdays and admission is free.)

"When did you ever see a young Einstein?" one of the two English-speaking guides, Bruno Jotzeler, asks rhetorically. "You always see the aging genius at the glorious end of his career. Yet it was this young man here who was the real genius."

There is further food for thought down below: in the Restaurant zum unfeierten Jucker (The Befuddled Man's Mess). Like many inns in Bern, it features another regional discovery: meringue, which takes its name from the village of Meiringen in the Bernese Oberland.

Looking left at the next intersection, the visitor can see the red-roofed Town Hall, built in 1406, one of Switzerland's most impressive Gothic secular buildings. As Kramgasse becomes Gerechtigkeitsgasse, near the Justice fountain that gives the street its newest name, No. 62, a place to drop in — literally. One of many trapdoors leading to cellar boutiques, antique shops and theaters that do not connect at all to the buildings above them, this one descends to a 1635 wine tavern called the Kästli-Keller. Now owned by the city, it maintains a tradition of fine Swiss wines and sausages and another tradition, bequeathed by its founders: since the Kästli sisters were spinsters, their cellar must be managed by unmarried women. A recent licensee had to leave because she married.

The street ends at the Nydegg Bridge and, crossing it, you can see that the old city is a peninsula in the Aare River. The bridge leads to the Bear Pits, open 7 A.M. to 6 P.M. from Easter through September (8:30 A.M. to 4 P.M. the rest of the year) with no admission charge.

There are two pits — one for the adult bears, who loll and eat; the other a playground for the frisky cubs who scale ladders and fight over rubber tires. The bear population ranges from 12 to 18. When cubs are born around Christmas, the mother sits on them for a good three months to keep them warm through the winter; they are blind for about 30 days at the age of eight or nine weeks, they start to walk.

From the Bear Pits, the nearby Untertorbrücke — for six centuries until 1850 the only bridge into Bern over the Aare — leads back into the city, and the specialty shops on the Postgasse. Bern has 5 miles of shopping arcades and in the city and its immediate surroundings, 165 miles of marked walking paths. Ten minutes above the Bear Pits are the municipal rose gardens, formerly a graveyard. Reached by public transportation and then a cable car to a 1,635-foot elevation, the "cave mountain" 820 feet above the city. It offers a hotel, restaurant, children's fairground and, above all, a panoramic view of the Alps.

To do Bern justice on foot, however, leave the Bear Pits and, heading left, visit the cathedral and the Swiss Parliament. The gardens of both afford breathtaking views of the Aare below. The cathedral, a late Gothic masterpiece dating to 1421, is notable for its stained-glass windows and choir stalls as well as a weather-beaten "Last Judgment" over the main portal.

Parliament's prime tourist attraction is a 105-yard cable car ride on the Märlibahn, the shortest public railroad in Europe. It runs from the Parliament terrace to the Aare below, the entire route being through a garden. Local jokers like to tell tourists that the huge multilevel Parliament is the head office of this tiny railroad.

WEEKEND

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SEPTEMBER DATEBOOK

Frank Shipway conductor, Peder Elvsvik violin (Lewitsch, Nielsen, Sibelius).
Sept. 16: Michel Corboz conductor (Mendelssohn).
*Tivoli Concert Hall (tel: 15.10.01).
BALLET — July 6-18: New York City Ballet.

ENGLAND

LONDON, Barbican Centre (tel: 628.87.95).
Barbican Theatre — Sept. 7-13: "The Tempest" (Shakespeare/Royal Shakespeare Company).
*British Museum (tel: 634.15.55).
EXHIBITION — To Sept. 13: "The Japanese Print Since 1900: Old Dreams and New Visions."
*Chelsea Antiques Fair (Chelsea Old Town Hall, King's Road, SW3).
Sept. 13-24: Antiques and carpets.
*London Coliseum (tel: 836.31.61).
English National Opera — Sept. 7, 10, 13, 16: "Rigoletto" (Verdi) Noel Davies conductor.
Sept. 19, 22, 24, 26: "Aida" (R. Strauss) Walter Weller conductor.
*Royal Academy of Arts (tel: 734.90.52).
Sept. 17-Nov. 13: "Art of the Avant-Garde in Russia: Selections from the George Costakis Collection."
*Royal Albert Hall (tel: 589.32.03).
Sept. 4: Vienna's Evening with the Vienna Orchestra of London.
Sept. 22 and 23: Every Brothers.
*Royal Opera House (tel: 240.10.60).
Royal Opera — Sept. 15, 17, 21, 27, 30: "Turandot" (Puccini).
Sept. 19, 22, 23, 24: "The Nutcracker" (Tchaikovsky).
*Royal Opera House (tel: 573.51.90).
ROCK — Sept. 9 and 10: Little River Band.
*Nakano Sun Plaza (463.79.76).
JAZZ — Sept. 30: Tommy Dorsey Orchestra.

GERMANY

BERLIN, Festival Week (tel: 26340).
CONCERTS — Sept. 3: Israel Philharmonic Orchestra, Zubin Mehta conductor (Mozart, Berg, Brahms).
Sept. 16: Jean-Pierre Rampal and His Friends (Boismorier, Mozart, Kuhlau, Telemann).
RECITAL — Sept. 26: Nicolai Gedda tenor, Nadia Gedda-Dova piano (Glinka, Mussorgsky, Rimski-Korsakov, Rachmaninoff).

BELGIUM

ANTWERP, Den Brandt Park (tel: 20.01.03).
EXHIBITION — To Oct. 2: "17th Biennial of Sculpture."
*Koninklijke Vlaamse Opera (tel: 233.66.85).
OPERA — Sept. 4: "Obéron" (Weber) Uwe Mündt conductor.
Sept. 17, 20, 23, 25, 30: "Aida" (Verdi) Nicolaus Harnoncourt conductor.

BRUSSELS, Musée de l'Air (tel: 379.60.61).
EXHIBITION — To Sept. 18: "Two Centuries of Aeronautical History."

*Palais des Beaux-Arts (tel: 512.30.45).
CONCERTS — Sept. 8: Tokyo String Quartet (Haydn, Ravel, Schubert).
Sept. 15: German Youth Philharmonic Orchestra, Gary Bertini conductor, Ria Chamber Choir, Rudolf Buchbinder piano (Webern, Mozart, Debussy).
Sept. 16: Liège Philharmonic Orchestra and Choir, Pierre Barthélémy conductor, Malvina Frajka piano (Ville-Lobos, Bartók, Stravinsky, Varèse).
Sept. 22: Belgian National Orchestra, Moodi Rodan conductor, Shura Cherkassky piano (Hindemith, Rachmaninoff, Ravel).
Sept. 23: Concertgebouw Orchestra, Nikolaus Harnoncourt conductor, Friedrich Gulda piano (Mozart).
Sept. 30: Academy of St. Martin-in-the-Fields (Handel).
EXHIBITION — To Sept. 25: "Three Continents: Africa, South Sea Islands, America," collection from the Stuttgart Linden Museum.

RECITAL — Sept. 27: Anthony Rolfe-Johnson tenor.

Sept. 28: Peter Lazlofsky violin.

DENMARK

ARHUS, Festival (tel: 6/12.16.00).
CONCERTS — Sept. 4: Royal Danish Brass.
DANCE — Sept. 8 and 9: The José Limón Dance Company.
Sept. 9: New Danish Dance Theater.
Sept. 10: Festival of Traditional Folk Dance.

JAZZ — Sept. 5 and 8: Open Air Jazz Concert.

MUSICALS — Sept. 3-10: "My Fair Lady."

OPERA — Sept. 5-10, 12-15: "Die Walküre" (Wagner) Aarhus Symphony Orchestra, Francesco Cistofoli conductor.

COPENHAGEN, International Jazz Montmartre (tel: 11.46.67).

Sept. 15: Arctic Sheep, Lester Bowie, Odd Fellow Palace (tel: 14.12.22).
Sept. 16: Krystian Zimerman piano.
Radio House (tel: 11.14.15).
Daniel Barenboim conductor, Martha Argerich piano (Wagner, Liszt).

FRANCE

BLERANCOURT, Musée Blerancourt (tel: 16.23/39.50.16).
EXHIBITION — To Oct. 3: "The Birth of a Nation: The 1783 Peace Treaty."

PARIS, Centre Georges Pompidou (tel: 27.11.23).
EXHIBITIONS — To Sept. 12: "Bonjour Monsieur Manet."

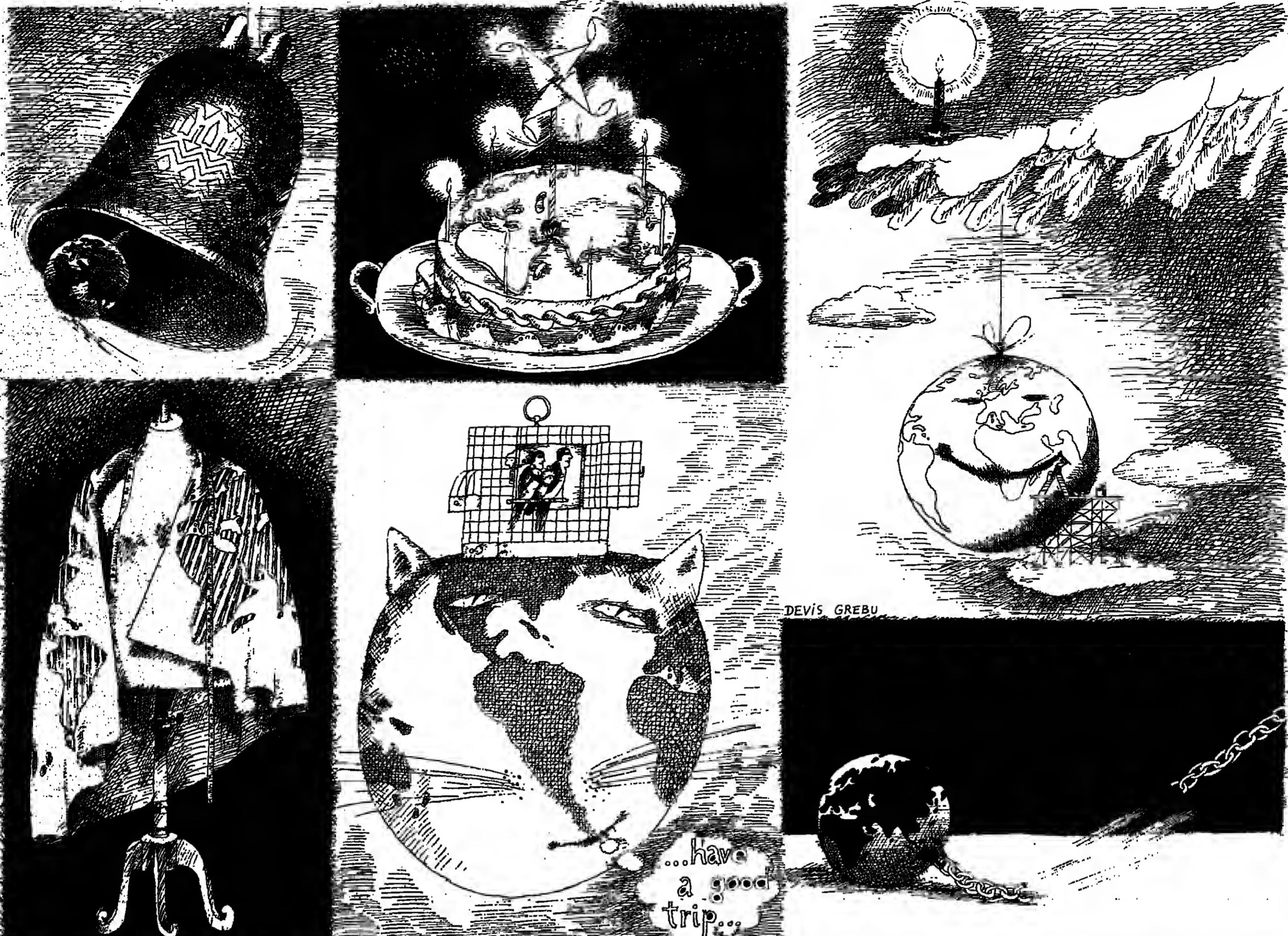
To Sept. 26: "Polish Art from the Lodz Museum."

PARIS, Musée d'Art Moderne de la Ville de Paris (tel: 723.61.27).
EXHIBITION — To Sept. 19: "Heribert 1902-1975," photography.

Musée des Arts Décoratifs (tel: 27.21.13).
EXHIBITION — From Sept. 10: "Gustave Doré, Engraver."

New Morning (tel: 523.56.3

TRAVEL



Out of This World, by Devis Grebu

Water, Water Everywhere

by Edward Schumacher

PUERTO IGUAZU, Argentina — The water comes tumbling over the precipices — an awesome and powerful spectacle, higher and wider than Africa's Victoria Falls: They are the Iguazu Falls, roaring in the semitropical jungle on the border of Argentina and Brazil, on the Iguazu River.

They are a virtual orchestra of falls — 275 separate ones lined up and stacked across a curving riverbank a mile and a half (2.4 kilometers) long. About 500,000 gallons (1.9 million liters) of water crash over them each second. The roar is so deafening it can be heard five miles away.

There are a handful of other waterfalls in the world that are higher or have more water, but what makes Iguazu so magnificent is the incomparable arrangement of the ensemble. In some of the drops, the brown water hops down in majestic stages, swirling around what seem to be precious islands of palm trees and hanging ferns. In others the water leaps off the tip of the edge to fall free up to 230 feet (70 meters) and pound on basalt rocks. Hanging over the spectacle is a perpetual mist crossed by rainbows.

The power and beauty are enhanced by the fact that a visitor can practically walk into the falls to see them and experience them from many angles. On the Argentine side, the National Park Service has constructed a series of catwalks along the river and up to the edges of many of the falls.

We struck out one morning on the lower

route on the Argentine side, crossing a catwalk at the base of Two Sisters Fall, a charming set of twin falls. Until that point we had only seen the mist and heard the roar. But as we circled, passing below and around other falls, the path broke through the trees for the first, breathless vista of a string of more than a dozen major falls. From then on, we were hooked.

The lower route takes about an hour of straight walking. Branches of the walkway went so close to some of the falls that we were drenched by their spray. But it is the mile-and-a-half upper route that is a hike into the full magnificence. Island paths and the sturdy catwalk — made mostly of concrete planks on a metal frame — cross the river above the falls, where the river is peaceful, just coming out of a hairpin curve with a sweep more than two miles wide. A few steps down, any of the many branches off the main route, however, lead to the edge of such huge falls as San Martin and Bosetti.

Their effect up close is hypnotic. The muddy water seems to gather speed, surging forth, and then suddenly dropping into space. Enveloped by the sound and staring into the powerful water, the viewer feels beckoned to jump. He has to force himself to look away.

At the end of the catwalk is the greatest spectacle: the Devil's Throat. It is a huge horseshoe in which the water comes crashing in from three sides. A rainbow stretches overhead. The viewing platform is almost thrust into the Throat.

The foliage along the walk was lush. Red bromeliads — called "carnations of the air" in Spanish — hung from the trees. In September, the first month of spring in the Southern Hemisphere, trees are also festooned with small yellow, orange and white orchids. At about the same time, the many *guacimo* trees blossom in a glory of pink or yellow, or the *ceibo*, the Argentine national tree, flowers in red.

The flowers make the spring months of September and October especially delightful, but any time between March and October is a good time to go. High temperatures run in the 70s, while between November and February the mercury hits 100 degrees Fahrenheit (38 degrees centigrade) and rain is common.

Most of the falls are on the Argentine side, so the best panorama is seen from the Brazilian side. A twisting path overlooking the river and the falls leads to an elevator that carries visitors to a plateau overlooking Devil's Throat.

The most thrilling way to see the Throat is said to be in a canoe paddled by Guarani Indians from the Argentine side to points around the edge on top.

A more practical recommendation, however, is to fly over the falls. One way is to take an air taxi between the Argentine and Brazilian sides. The only other way across is by ferry; there is no nearby bridge. The planes usually fly over the falls for a one-way fare equivalent to \$12. More fulfilling is to join a tour that flies over the falls, circling it several times, for \$15 a person in groups of at least four. Passengers can see where, 12 miles below the falls, the Iguazu meets the Upper Paraná River, which is where Argentina, Paraguay and Brazil come together.

Most fulfilling of all is to rent a two-engine plane for the equivalent of about \$15 for up to five persons. We flew over the falls and then up the Upper Paraná to Itaipu Dam. Several times larger than the Aswan High Dam in Egypt, Itaipu was completed in November 1982, a joint venture of Brazil and Paraguay. It produces more electricity than any dam in the world. The lake created by it is 530 square miles (1,400 square kilometers), and it forced the relocation of cemeteries, animals, rare plants and 42,000 people. The whole trip takes 40 minutes.

Both the falls and the dam are products of the peculiar geography of the area. The land is flat, so the rivers run slowly. The Iguazu and the Upper Paraná are not wide rivers, except for the Iguazu's turn above the falls. The width of the canyon below the falls, for example, is only about 300 feet. The two rivers, however, are extraordinarily deep, giving them a great volume of water to drive the turbines.

According to geological studies, the falls are created millions of years ago, apparently by a volcanic eruption. The Indians name it Iguazu, which means "great water" in Guaraní.

There are many good hotels, either in Puerto Iguazu, a town of about 10,000 people five miles from the falls, or across the river to Foz do Iguazu, Brazil, a city of 40,000 people.

The best place to stay, however, is at the falls themselves. On the Brazilian side is the Hotel das Cataratas (the equivalent of \$92 for two), a pink colonial-style building long on charm but short on comfort. The Hotel Internacional on the Argentine side is superior. It is modern and well appointed and its upper floors have a view of the falls (rooms for two vary from \$54 with jungle view during the week to \$115 with a falls view on Argentine holidays).

Acrolines Argentina has daily flights from Buenos Aires to Puerto Iguazu, and Varig Brazilian Airlines also flies daily — to the Brazilian side of the falls — from Rio de Janeiro and São Paulo.

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Into the Timeless Blue Yonder

by Donal Henahan

DUXFORD, England — I don't know what I expected to find when I returned after a 38-year absence to visit the British air base where I was stationed as a U.S. fighter pilot in World War II: a rustic scene, perhaps, with a farmer in the distance cutting hay or tending his lowing herd. Or maybe a suburban shopping center: Duxford is about 8 miles (about 13 kilometers) south of Cambridge, which by now might have suffered from academic sprawl and given birth to a Cambridgesdale mall.

I must have been reluctant to know the truth, since on previous trips to England I had made no attempt to inquire after or visit the place. At any rate, I was not prepared to find that Duxford, once an 8th Air Force fighter base where P-51 Mustangs were stabled, had been turned into — steady, now — a museum. They could have spared me that.

Still, it was comforting as well as a bit disconcerting to discover that many of my old friends and heroes were among the exhibits, their faces looking out at me from glass cases. Since 1976, Duxford has been an arm of Britain's Imperial War Museum and the site of periodic air shows and exhibitions. In fact, I was told by David Lee, deputy keeper of the airfield, that the retired fighter base is now the largest museum of air weaponry in Europe.

On the warm afternoon of my visit, busloads of schoolchildren swarmed over the place, laughing irreverently in what I in my nostalgic reverie regarded as holy places. Why, right here, I thought, would have stood the very bar where we gathered nightly to sing drunken choruses of profane songs, many of them inherited from the Royal Air Force pilots, that had turned the base over to the Americans in 1943.

In the last two years, some 700,000 people have visited the airfield, which is open from mid-March through the first week in October. I, naturally, found every inch of the place enthralling. But even for the idle tourist Duxford Airfield would be worth a side trip, as guidebooks say.

Along with more disinterested visitors I wandered from hangar to hangar looking at the more than 80 carefully restored and maintained aircraft, many of them in flyable condition. There were, of course, Spitfires, Hurricanes, Mustangs and Thunderbolts from World War II, a Junkers J-52 transport, a B-29A bomber and a couple of B-17Gs, as well as a midsize submarine, various old tanks and other vehicles.

I was fascinated to see for the first time an actual Messerschmitt ME-163, the German rocket ship that arrived on the scene along with the ME-262 jet, in the war's final months. They became our group's most elusive and most-coveted targets. I often heard other pilots yelling over the radio as they chased one or the other of these speedy wraiths. Now I have confronted the chimerical ME-163 in person and even touched its sleek, ugly nose.

From World War I, when Duxford first became an operational airfield, one could examine a Spad and a replica of the Red Baron's own Fokker triplane. Representing the jet age were such relatively sleek items as an American F-100D, a British Gloster Meteor F-8 and even, for some reason, a decidedly unwarlike Concorde. The droop-nose Concorde, a preproduction model, flew into Duxford in August 1977 and probably is there to stay. Shortly after its arrival, construction of the M-11 highway from London to Cambridge reduced the length of Duxford's 6,000-foot runway by about 1,500 feet, which might have cramped the supersonic craft's style. A public appeal is under way for money to build a "superhangar" to house the Concorde and other outsize craft. There is plenty of space for it: One of the three old timbered hangars from my time was blown up in 1968 to add versimilitude to the filming of "The Battle of Britain," which was shot at Duxford.

By the end of the war in 1945, so many 8th Air Force fighter and bomber fields were sprinkled over the flatland of East Anglia that the area was likened to an American aircraft carrier moored in England. Some names even now resonate in the memories of the World War II generation: Steeple Morden, Saffron Walden, Bury St. Edmunds, Bordon, Fowlmere, Royston, Peterborough. And, of course, Duxford. Formerly an operational fighter base of the Royal Air Force, it was turned over in June 1943 to the U.S. Air Force and became headquarters of the 78th Fighter Group, one of many such units whose mission was to protect the B-17s and B-24s engaged in daylight bombing of Germany.

Although the museum had turned Duxford into a somewhat different place from the wartime base I knew, the physical plant remained recognizable. The squadron ready room and the little hall where we were briefed before missions and debriefed afterward were still there. So were the mess hall and lounge, although they no longer served their ancient purposes.

After a short search, I even tracked down the brick house across the road where I was quartered. It had been transformed into a private home in a smart little subdivision, tidily landscaped and graced with window boxes. Nevertheless, I was happy to see that some things are eternal: Now, as then, there are three pubs in the minuscule town of Duxford, just down the road from the airfield.

Somehow I found it distressing that since my Duxford days a concrete runway had been installed. That struck me as inexcusable tinkering with history: In my day there was a narrow, perforated steel mat that could be used on rainy days, but most of us took off on the grass, six or eight abreast, in order to get as many planes airborne as quickly as possible.

I learned from Lee that painstaking efforts are made to preserve the history of Duxford Airfield. With his help I even found my own minor contribution documented in a memorial volume titled "Duxford Diary." It was a photo taken with my P-51's gun cameras during a strafing run on a German airfield. For a giddy moment I felt like a dinosaur that had been whisked back in time and allowed to see its own bones on display.

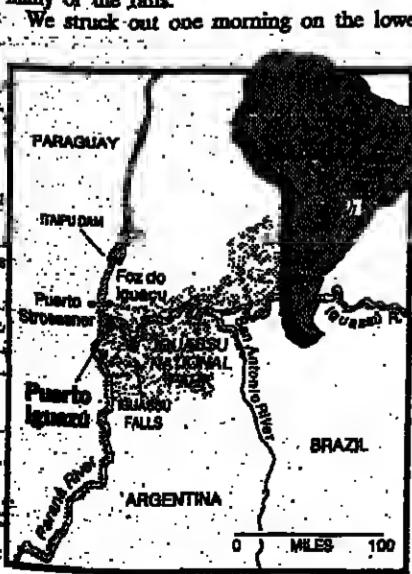
All around the museum base, schoolchildren roamed, observing the exhibits with the amused detachment that the young adopt when forced to go on educational field trips.

One exhibit is a scrupulously restored P-51D named "Big Beautiful Doll" with its checkerboard nose (the identifying mark of the 78th) and victory score of swastikas painted on its fuselage. Big Beautiful Doll was the Mustang flown by Colonel John Landers, the ace who commanded the ME-262s in the last months of the war. In another building that housed a pictorial exhibit, I found photos of men I idolized, Duxford legends such as Squadron Leader Doug Bader, the legless hero of the Battle of Britain; Captain Quince Brown, Colonel Armand Peterson..

In Hangar D, a solitary workman was rebuilding a Mustang that had found its way to Duxford after serving in Sweden and Israel. The craftsman, one of many expert restorers who work there, mostly without pay, handled each P-51 part with as much care and love as an archaeologist would the wing bone of a pterodactyl. I felt a slight chill in my own bones, though it was warm enough.

Back in the museum's souvenir building, children who might never know any more about war than they could learn in a museum busily stocked up on Duxford books, Duxford caps and Duxford key chains. They had spent a couple of hours trying to think themselves back into a dim, strange past. So had I, probably with more success. I bought two Duxford T-shirts and some postcards and drove back to London in the slow lane.

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Despite the Loss of Cable Cars, San Francisco Tourism Is Back on the Rails

SAN FRANCISCO — Larry Nissim punches the clock at 9:30 A.M., ready for the day's work. Ten times before dusk, he will make the 55-minute round trip hauling passengers between Union Square and Fisherman's Wharf in the bright-red double-decker tour bus he drives for the Gray Line.

The 70-passenger bus that he guides along hilly streets is among a wide assortment of "cable car alternatives" — including antique trolleys

and borrowed buses — pressed into service this summer during the temporary shutdown of San Francisco's cable car system. The vehicles are being used in an effort to keep the city's \$1.2-billion tourist business thriving during its peak months until the system reopens next June after a 20-month restoration project.

Nissim, a school administrator, is in his 17th summer of driving tourists around the city. He sees no decline in activity — cable cars or

not. "I can't see any difference at all," he says as he maneuvers the bus past the crowds on Pier 39. "If anything, it's picked up from last year."

Official assessments support his impression, indicating "a very good summer" at Fisherman's Wharf and other tourist-oriented businesses that have relied on cable car trade in the past. The San Francisco Convention and Visitors Bureau also credits a resurgent U.S. economy, among other factors, for the increased activity.

Occupancy rates in first-class hotels, which plunged to about 70 percent last year, are also on the rise, according to a study.

Still, the shutdown is widely felt. Residents complain of the inconvenience of excavations and detours forced by the \$58.2-million restoration project. And tourists voice disappointment at the absence of the cars that attracted nearly 13 million riders a year.

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Herald Tribune

BUSINESS/FINANCE

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FRIDAY, SEPTEMBER 2, 1983

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TECHNOLOGY

By AMIEL KORNEL

'Smart Cards' Have Potential to Ease Transactions, but Seem Far in Future

PARIS — Fund transfer systems, overloaded and often abused, are in need of new technological aid. Billions of checks, hundreds of millions of credit cards, and incalculable tons of coins worldwide create problems of security, economy and logistics for banks, telecommunications authorities and businesses that collect and process these forms of payment. The "smart card" soon may bring relief. The size and thickness of a credit card, it contains a computer chip embedded in its plastic. The tiny chip turns the card into a highly secure, "intelligent" means for the transfer of information — or money.

According to electronics manufacturers, bankers and other observers, interest in the smart card is gathering momentum as an increasingly computerized world begins to recognize the card's technological promise. Widespread use may soon take off in France, with banks and the PTT leading the way.

A memory capacity of several thousand bits and microprocessing ability endow the smart card with the characteristics of a micro-computer. It can perform calculations or otherwise treat data according to the logic with which it has been programmed. Most importantly, it offers a high level of security against fraud through the inclusion of an encryption function.

It is this intelligence and security that make the card such an attractive alternative to checks and to its less fraud-proof cousin, the magnetic stripe card. By shifting information processing from expensive terminals and computers to the card itself, the smart card permits simpler fund-transfer networks that would result in lower cost per transaction.

While banks' interest in the card has been motivated by a desire to stem the ever-rising tide of checks that they must process, the French PTT sees it as a welcome companion to its nascent Teletel videotex system. The smart card will help control access to special data bases, serve as a means of payment for goods and services, and allow home banking.

The PTT also hopes that the card will help end the troublesome task of collecting coins from public pay phones. In 1982 they had to haul in 15,000 tons of coins valued at 1.5 billion francs.

Smart-Card Testing

Three manufacturers have so far pursued development of a marketable smart card. Philips, CII-Honeywell Bull and Fericom "Carte à mémoire" have each designed a different card based on the original "carte à mémoire" created by Roland Moreno, its French inventor, in 1974.

Smart cards currently are being tested in several different applications. The most extensive experience involves 125,000 cards and 650 point-of-sale terminals distributed and installed in the French cities of Biarritz, Caen and Lyon since the beginning of the year. Consumers can purchase goods by inserting their card, which has been pre-programmed with their bank balance, into a simple, off-line terminal. The card is debited the amount of purchase while the terminal registers the store-owner's credit. A phone call will transfer electronically the day's receipts to his bank's computer.

The PTT has begun installation of what will grow to more than 10,000 smart-card-reading pay phones by 1985. Three hundred homes receiving the Teletel service have been equipped with smart-card readers.

The smart card is also generating interest outside of France. In the United States, the Department of Agriculture is looking at it as a possible alternative to food stamps. In a pilot videotex project in Minnesota the First Bank System of Minneapolis is offering home banking to farmers with the card. Chase Manhattan and American Express are among those financial institutions that are closely following the card's development.

Being Smart Isn't Enough

But being smart is not enough to assure the card's future. Hurdles remain to be crossed on the path to technical and commercial maturity. For example, bankers and manufacturers insist on the need for compatibility between all cards and card-reader terminals.

"As long as there is no standard, competition is not going to be very lively," said Michel Galet, an executive at the data systems division at Philips.

According to Jean-Pierre Ligetti, sales manager at NCR France, NCR will not make a major investment to bring out a card or card-reader terminal until a well-defined industry standard exists.

But agreement on a standard seems to be nearing. "It is inevitable that the problem of standardization will be solved this year," Mr. Galet said. "If constructors standardize and there are no practical problems of transition, it should be for the end of the year that the banking program [in France] takes off significantly," said Jean-Pierre Canicot, director of research and development at the Crédit Agricole, one of the first French banks to investigate the smart card.

If and when smart-card use does get going, competition and money-making opportunities will not be lacking. The potential number of cards to be sold by 1990 has been estimated at 100 million worldwide. As

(Continued on Page 13, Col. 1)

CURRENCY RATES

Interbank exchange rates for Sept. 1, excluding bank service charges									
	\$	£	FRF	YEN	DM	SF.	£	DM	YEN
Appleton	2,005	4.513	11,055	37.14	0.975	5,564	327.83	31.08	—
Bremen	5,410	81.922	20,105	—	6.61	3,249	17,748	—	—
Brisbane	1,005	1.402	1,000	—	0.995	0.995	1,000	—	—
London (D)	1,059	—	4,042	13,702	4,526	4,973	—	22,435	—
Milan	1,684.55	2,699.20	3,945.9	195.24	—	523.93	29,493	162.5	162.5
New York	1,075	0.7974	0.8231	0.8281	0.8218	0.8218	0.8184	0.8184	1.0107
Paris	8,075	12,125	201.12	—	0.9052	26.20	14,973	35.72	35.72
Perth	2,015	3,276	21.725	24.4	—	72.51	4,039	—	—
Seattle	8,074	12,125	201.12	—	0.9052	26.20	14,973	35.72	35.72
Tokyo	1,076.01	0.6943	1.024	0.8154	2,349.2	45,126	1,499	1,499	1,499
U.S. (D)	2,014.41	3,276	21.725	24.4	—	72.51	4,039	—	—
U.S. (L)	2,014.41	3,276	21.725	24.4	—	72.51	4,039	—	—

(Continued from Page 13, Col. 2)

Interest Rates

Eurocurrency Deposits									
	Dollar	D-Mark	French	Sterling	French	ECU	SDI		
1M	9.70	5.56	5.56	4.54	4.54	9.16	9.70	12.76	13.14
2M	10	7.65	5.56	4.54	4.54	9.9	9.70	12.76	13.14
3M	10	7.65	5.56	4.54	4.54	9.9	9.70	12.76	13.14
6M	10	7.65	5.56	4.54	4.54	9.9	9.70	12.76	13.14
1Y	10	7.65	5.56	4.54	4.54	9.9	9.70	12.76	13.14
2Y	10	7.65	5.56	4.54	4.54	9.9	9.70	12.76	13.14
3Y	10	7.65	5.56	4.54	4.54	9.9	9.70	12.76	13.14
4Y	10	7.65	5.56	4.54	4.54	9.9	9.70	12.76	13.14
5Y	10	7.65	5.56	4.54	4.54	9.9	9.70	12.76	13.14

Key Money Rates

United States									
	Close	Prev.	Bank Base Rate	Call Money	90-day Treasury Bill	3-month Interbank	Class	Prev.	
Discount Rate	8.5%	8.5%	10.5%	10.5%	10.5%	10.5%	9.7%	9.7%	—
Federal Funds	9.5%	9.5%	10.5%	10.5%	10.5%	10.5%	9.7%	9.7%	—
Prime Rate	11	11	10.5%	10.5%	10.5%	10.5%	9.7%	9.7%	—
Bridger Lane Rate	10.5%	10.5%	10.5%	10.5%	10.5%	10.5%	9.7%	9.7%	—
Commercial Paper, 30-179 days	9.50	9.50	10.5%	10.5%	10.5%	10.5%	9.7%	9.7%	—
Smooth Treasury Bills	9.46	9.47	10.5%	10.5%	10.5%	10.5%	9.7%	9.7%	—
CD's 90 days	9	9	10.5%	10.5%	10.5%	10.5%	9.7%	9.7%	—
CD's 360 days	9.725	9.725	10.5%	10.5%	10.5%	10.5%	9.7%	9.7%	—
West Germany	5	5	5	5	5	5	5	5	—
London	5.10	5.10	5.56	5.56	5.56	5.56	5.56	5.56	—
One Month Interbank	5.40	5.53	5.56	5.56	5.56	5.56	5.56	5.56	—
3-month Interbank	6	5.56	5.56	5.56	5.56	5.56	5.56	5.56	—
6-month Interbank	6.50	6.50	5.56	5.56	5.56	5.56	5.56	5.56	—
Japan	5	5	5	5	5	5	5	5	—
Discount Rate	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	—
Call Money	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	—
Money Interbank	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	—
Gold Prices	—	—	—	—	—	—	—	—	—

GOLD PRICES

	A.M.	P.M.	CH-100

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BUSINESS BRIEFS

3 European Computer Firms Plan Institute for Data Systems Research

MUNICH (AP) — Three European computer companies signed a letter of intent Thursday to form a data systems research institute, according to Siemens AG, one of the participants. The other companies are Compagnie des Machines Bull of France and International Computer Ltd. of Britain.

The aim of the project is to keep up with developments in data systems technology, Siemens said. The three companies will own equal shares in the institute and each will have access to its findings. Individual research by the companies will still be done.

The institute, to begin operations in Bavaria early next year, will employ top researchers in the field and will be staffed with up to 50 persons by 1985, Siemens said.

France Fines Boehringer in Drug Case

PARIS (AP) — Three French companies controlled by the Boehringer Ingelheim pharmaceutical group of West Germany have been fined 1.5 million francs (\$307,000) for keeping prices of two heart drugs artificially high, it was announced Thursday.

The Economics Ministry imposed the fines at the recommendation of the state monopolies commission. The commission ruled that Laboratoires Boehringer Ingelheim, Laboratoires Francais de Therapeutique and Laboratoires du Sud-Ouest had formed a cartel for the drugs Peristene and Peridamol.

The cost to the French social security system as a result was estimated at more than 100 million francs. The ministry ordered the companies to lower the price of the drugs by 5 percent.

Court to Hold Rumasa Chief's Goods

MADRID (Reuters) — A court has started proceedings to confiscate the personal property of Jose Maria Ruiz Mateos, 52, founder and former president of Spain's largest private holding company, Rumasa, which was expropriated by the Socialist government in February, court officials said.

The confiscation is designed to secure a deposit of almost \$700 million set by the court to face possible claims arising from charges of smuggling, accounting fraud, social security fraud and embezzlement against the financier.

The state took over the conglomerate, which controlled 700 companies, to avert its collapse after reported losses of almost \$500 million in 1982. Mr. Ruiz Mateos and another former Rumasa executive, Jose Diaz Hidalgo, who faces the same charges, are in London. A warrant for their arrest was issued in May, but there is no extradition treaty between Spain and Britain.

U.S. Halts Car Air-Bag Rule for a Year

WASHINGTON (UPI) — The Reagan administration is suspending for one year a Carter administration regulation that would have required air bags or automatic safety belts in all passenger cars.

The Transportation Department, in announcing the suspension Wednesday, said automakers could not have met the deadline for the rule, which has an uncertain legal future.

In 1981 the National Highway Traffic Safety Administration ordered the rule rescinded, but the U.S. Court of Appeals blocked the move in 1982. This summer the Supreme Court sent the case back to the appeals court with instructions that it be returned to the Transportation Department, which said it would have new rules drawn up before the one-year suspension expires.

OPEC Panel Changes Meeting Date

NEW YORK (Reuters) — The four-member market monitoring committee of the Organization of Petroleum Exporting Countries has rescheduled its meeting to Sept. 15 from Sept. 13, industry sources said Thursday. OPEC sources have said that the panel will consider raising the OPEC production limit, now 17.5 million barrels a day.

The sources said OPEC rescheduled the meeting of oil ministers from Algeria, Indonesia, the United Arab Emirates and Venezuela because Pope John Paul II had arranged to visit Vienna on Sept. 13 and security forces would be unable to handle the extra burden.

U.S. Agency Questions Link of Trade to Dollar

By Stuart Auerbach
Washington Post Service

WASHINGTON — The chairman of the International Trade Commission has warned that the United States' growing merchandise trade deficits are unlikely to be turned around by a lowering of interest rates and a decrease in the value of the dollar.

Citing a study released Wednesday by the ITC, Chairman Alfred E. Eckes said other factors are often equally as important as the high value of the dollar in hurting U.S. sales overseas and encouraging the heavy flow of foreign goods in the United States.

"Exchange rate movement cannot always be assumed to be the predominant factor which determines changes in trade flows with respect to any individual product," the ITC report said.

It cited other factors, especially changes in competitors' prices, demand for the product, local production and manufacturing costs, that play key roles in changing world trade flows.

For instance, the study found that U.S.-French trade balances improved slightly even though the dollar grew in value 21 percent against the franc between 1981 and 1982. On the other hand, the U.S.-West German trade deficit worsened considerably while the dollar increased in value by 7 percent against the Deutsche mark.

The range of factors influencing trade flows varied from country to country, even within the same product, the report said.

The strength of the dollar, for instance, was found to have played a minor role in influencing trade in magnesium between the United States and Japan. The dollar's value, however, was significant in hurting U.S. sales of magnesium to the European Community, where U.S. exports faced stiff competition from Norway, also a low-cost producer, and the second-largest exporter after the United States.

Mr. Eckes called "the growing challenge of imports to domestic industry as important to this decade as energy was to the 1970s."

Mr. Eckes predicted that other U.S. industries will be facing the kind of import-induced problems now hurting the American shoe, clothing, steel and auto industries.

"Changes in means of payment happen slowly," said Jean-Louis Marchand, a member of the smart-card group at the FIT. "On the order of a generation," he added.

Smart-card supporters are rather circumspect in their projections about a "cashless society." "The smart card implies a considerable change in people's habits," said a spokesman for CII-Honeywell Bull.

"Changes in means of payment happen slowly," said Jean-Louis Marchand, a member of the smart-card group at the FIT. "On the order of a generation," he added.

International Herald Tribune

S. Africa Letting Monopolies Grow

(Continued from Page 11) bricks, motor vehicle distribution, forest products, wire manufacture, explosives and freight forwarding. Anglo American's sister company, De Beers Consolidated Mines, controls the world trade in diamonds.

In addition to Anglo American, a handful of producers dominate many key business sectors, while government-sanctioned cartels operate in others. They fix prices, keep out newcomers and carve up markets among themselves.

There are monopolies in the production of diesel engines, stainless steel, wooden matches, flat glass and numerous chemical products. Cement producers openly cooperate to divide up markets and to protect price competition.

A series of mergers and takeovers in the last few months has prompted complaints that business power is being concentrated in too few hands. Many of the transactions reflect efforts by foreign companies to take advantage of high stock market prices and the firmness of the South African currency, the rand.

For example, Metal Box, a British packaging group, merged its South African operations with the packaging arm of the Barlow Rand Group, the country's biggest industrial company. The enlarged group has a 45-percent slice of the packaging market. Competition in the food and glass businesses has been stifled by similar arrangements.

The seven-member Competition Board, which reviews all merger proposals and has the power to break up those it rejects, has been plagued by personnel shortages and swamped by the rising tide of monopolies.

The board has moved against some merger attempts but mainly they involve smaller businesses such as electrical contractors and florists. In any case, it supports the government-sanctioned monopolies as being "in the public interest."

Donald Gordon, chairman of the Liberty Life Association of Africa, one of the three big insurance groups, predicted last year that just six companies would tower over the economy by the end of the decade. He says now that his forecast is coming true much sooner than he predicted.

"Everybody is jumping around trying to pick up what they can before it's picked up by someone else," he said. "If we sit back and do nothing, we're going to be losers in the race."

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September 1 1983

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AL-MAL MANAGEMENT CO. S.A. (mt) Al-Mal Trust \$134.44

BANK LILLUS BAER & Co Ltd (d) Borsenhandl. SF 765.20

(d) Carbon. SF 1.200

(d) Daimler-Benz AG SF 625.50

(d) Stocker AG SF 271.00

BANK VON ERNST & Cie AG PB 242288

(d) CSF Fund SF 222.04

(d) FTF Fund H.V. SF 1.72

CHARTER LIFE INS GRAND TURK A.W.L.

(w) Growth Strategies Fund II. SF 1.79

(w) Income Fund and Strategic Fund SF 1.11

(w) Future Strategies Fund SF 1.11

CREDIT SUISSE (ISSUE PRICES)

(d) Actions Suisse SF 300.00

(d) Capital SF 1.200

(d) Bonds Suisse SF 1.200

(d) Capital Suisse SF 1.200

(d) Credit Suisse Fund SF 1.200

(d) Investment FPF SF 1.200

(d) Investment Fund DM 1.932

(d) Int'l Remittance Fund DM 75.27

PENNIE POIS 478, Hamilton, Berm.

(d) American Value Center, PFS 101.25

(d) Fidelity Amer. Assets S.442.00

(d) Fidelity Dir. Inv. Tr. SF 1.215

(d) Fidelity Fund SF 1.215

(d) Fidelity Orient Fund SF 1.215

(d) Fidelity Pacific Fund SF 1.215

(d) Fidelity Small Fund SF 1.215

(d) Mopinion SF 1.215

FURBES PO 887 GRAND CAYMAN London Agent 01-899 2013

(d) Gold Gold SF 1.215

(d) Gold Income SF 1.215

(d) Gold Gold SF 1.215

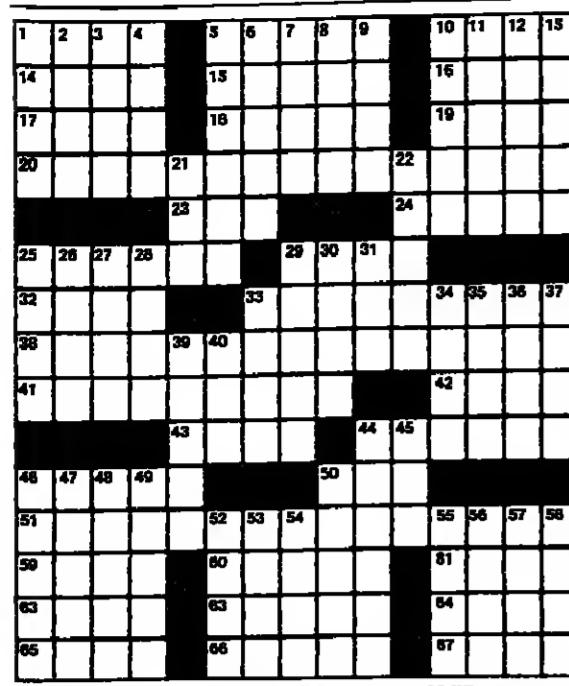
G.T. MANAGEMENT (UK) LTD (d) Brit. Amer. Assets S.442.00

(d) Brit. Amer. Science S.442.00

(d) G.T. Asian H.K. Inv. Fd. S.1.120

(d) G.T. Bond Fund S.1.120

CROSSWORD



ACROSS

- 1 O.J. was one
- 5 Sweet smell
- 14 Right on!
- 15 Equally
- 16 A Met score
- 17 Sunday paper
- 18 An African capital
- 19 Proverbial
- 20 Giants in "Gulliver's Travels"
- 21 Noah's masterpiece
- 22 Pope's "Man"
- 23 Indian of Arizona
- 24 Author's item
- 25 Filipino's machete
- 26 Rascals' temporary quarters
- 27 Freedom zealot
- 41 Sherman at Atlanta
- 42 Dito's kin
- 43 "Pilot of the
- 44 Pea in a pen-shooter
- 45 Some are white
- 50 Greek goddess of vengeance

DOWN

- 1 Fishhook
- 2 Love, to Virgil
- 3 Mother of the Gorgons
- 4 Door part
- 5 Pasquinoade
- 6 Bull thump
- 7 Son frequently by Holmes's circle
- 8 Related
- 9 City near Phoenix
- 10 Principal constituent
- 11 Yards of buildings
- 12 Ascending vine
- 13 Bulky and heavy
- 21 Morse's dash
- 51 Thaumaturgist's cousin
- 52 Hits the "+" button
- 53 Ocean corners and gores
- 54 Record
- 55 Sport
- 56 Makes uniform
- 57 Close frayed edges
- 58 Hits the "++" button
- 59 Ocean corners and gores
- 60 Master stroke
- 61 Record
- 62 Sport
- 63 Makes uniform
- 64 Angury
- 65 A son of Aphrodite
- 66 Meaningful
- 67 Close frayed edges
- 68 Comfor
- 69 Tartan douser
- 70 Idol of a sort
- 71 In the know
- 72 Strain-laced
- 73 Curves
- 74 Sudden Niagara
- 75 Fervency
- 76 Eventuated
- 77 Snakelike roads
- 78 Proxy
- 79 Columnist's line
- 80 Phoenix
- 81 Eldestate Greg Langans
- 82 Product of cogitation
- 83 Momad
- 84 Inspid
- 85 What Watson won in '82
- 86 Tear to bits

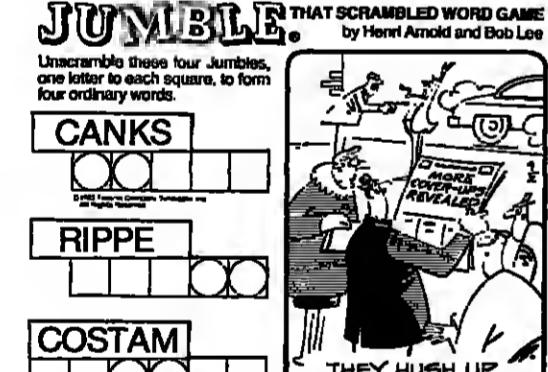
CROSS

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DENNIS THE MENACE



JUMBLE THAT SCRABBLED WORD GAME by Henri Arnold and Bob Lee



CANKS

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Answer Could it be a place to live if you've got time? — A CELL

WEATHER

EUROPE		ASIA		AFRICA		LATIN AMERICA		NORTH AMERICA		MIDDLE EAST	
N	IOWA	HIGH	LOW	R	R	R	R	R	R	R	R
1	2	3	4	5	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12	13
3	4	5	6	7	8	9	10	11	12	13	14
4	5	6	7	8	9	10	11	12	13	14	15
5	6	7	8	9	10	11	12	13	14	15	16
6	7	8	9	10	11	12	13	14	15	16	17
7	8	9	10	11	12	13	14	15	16	17	18
8	9	10	11	12	13	14	15	16	17	18	19
9	10	11	12	13	14	15	16	17	18	19	20
10	11	12	13	14	15	16	17	18	19	20	21
11	12	13	14	15	16	17	18	19	20	21	22
12	13	14	15	16	17	18	19	20	21	22	23
13	14	15	16	17	18	19	20	21	22	23	24
14	15	16	17	18	19	20	21	22	23	24	25
15	16	17	18	19	20	21	22	23	24	25	26
16	17	18	19	20	21	22	23	24	25	26	27
17	18	19	20	21	22	23	24	25	26	27	28
18	19	20	21	22	23	24	25	26	27	28	29
19	20	21	22	23	24	25	26	27	28	29	30
20	21	22	23	24	25	26	27	28	29	30	31
21	22	23	24	25	26	27	28	29	30	31	32
22	23	24	25	26	27	28	29	30	31	32	33
23	24	25	26	27	28	29	30	31	32	33	34
24	25	26	27	28	29	30	31	32	33	34	35
25	26	27	28	29	30	31	32	33	34	35	36
26	27	28	29	30	31	32	33	34	35	36	37
27	28	29	30	31	32	33	34	35	36	37	38
28	29	30	31	32	33	34	35	36	37	38	39
29	30	31	32	33	34	35	36	37	38	39	40
30	31	32	33	34	35	36	37	38	39	40	41
31	32	33	34	35	36	37	38	39	40	41	42
32	33	34	35	36	37	38	39	40	41	42	43
33	34	35	36	37	38	39	40	41	42	43	44
34	35	36	37	38	39	40	41	42	43	44	45
35	36	37	38	39	40	41	42	43	44	45	46
36	37	38	39	40	41	42	43	44	45	46	47
37	38	39	40	41	42	43	44	45	46	47	48
38	39	40	41	42	43	44	45	46	47	48	49
39	40	41	42	43	44	45	46	47	48	49	50
40	41	42	43	44	45	46	47	48	49	50	51
41	42	43	44	45	46	47	48	49	50	51	52
42	43	44	45	46	47	48	49	50	51	52	53
43	44	45	46	47	48	49	50	51	52	53	54
44	45	46	47	48	49	50	51	52	53	54	55
45	46	47	48	49	50	51	52	53	54	55	56
46	47	48	49	50	51	52	53	54	55	56	57
47	48	49	50	51	52	53	54	55	56	57	58
48	49	50	51	52	53	54	55	56	57	58	59
49	50	51	52	53	54	55	56	57	58	59	60
50	51	52	53	54	55	56	57	58	59	60	61
51	52	53	54	55	56	57	58	59	60	61	62
52	53	54	55	56	57	58	59	60	61	62	63
53	54	55	56	57	58	59	60	61	62	63	64
54	55	56	57	58	59	60	61	62	63	64	65
55	56	57	58	59	60	61	62	63	64	65	66
56	57	58	59	60	61	62	63	64	65	66	67
57	58	59	60	61	62	63	64	65	66	67	68
58	59	60	61	62	63	64	65	66	67	68	69
59	60	61	62	63	64	65	66	67	68	69	70
60	61	62	63	64	65	66	67	68	69	70	71
61	62	63	64	65	66	67	68	69	70	71	72
62	63	64	65	66	67	68	69	70	71	72	73
63	64	65	66	67	68	69	70	71	72	73	74
64	65	66	67	68	69	70	71	72	73	74	75
65	66	67	68	69	70	71	72	73</td			

